IEEE 802.16 Working Group on Broadband Wireless Access

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To: Soohong Daniel Park and Gabriel Montenegro
         Chairs, *IETF IP over IEEE 802.16 Networks (16ng)* Working Group

Subject: IEEE 802.16 Working Group consideration of ip-over-ethernet-over-802.16 internet draft

During its Session #53 in Levi, Finland of 21 -24 January, the IEEE 802.16 Working Group (WG), through an ah hoc review committee, developed the following comments on the IETF 16ng document *draft-ietf-16ng-ip-over-ethernet-over-802.16-04*.

Convergence Sublayer Types
Section 4.2 discusses the different convergence sublayer types. During the development of the IP over Ethernet over 802.16 specification, the GPCS (Generic Packet Convergence Sublayer) has been standardized in IEEE 802.16 with the approval of the IEEE Std 802.16g-2007 amendment on 27 September 2007. This convergence sublayer supports Ethernet packet types.

It appears that nowhere does the draft mention that it is either the 802.3/Ethernet specific part of the packet CS (Ethernet CS) or the GPCS over which the Ethernet frames are being carried. It would be appropriate to state this.

GPCS
Using the GPCS, the classification and Packet Header Suppression (PHS) of higher layer packets to particular service flows is performed outside the 802.16 convegence sublayer and is indicated to the convergence sublayer through the use of a service flow ID and subscriber station MAC address that the 802.16 convergence sublayer uses to identify a related CID.

Multicast CIDs
The second paragraph of Appendix A implies that a standardized means of establishing and maintaining multicast CIDs is needed. IEEE Std 802.16 already provides this. It is the association with Layer 3 traffic that is not defined in the 802.16 standard.

MBS
In the second parapgrah of Appendix A, The term 'multicast and broadcast' can be easily confused with MBS (multicast broadcast service). It would be appropriate to clarify the difference.

Ongoing Work
In the second paragraph of Appendix A, we suggest that the forward looking statement "Such a protocol is not yet available but under development by the Networking Working Group of the WiMAX Forum." is not appropriate for a standards RFC.

The IEEE 802.16 Working Group very much appreciates the opportunity to review this document.

Sincerely,

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cc: Paul Nikolich, Chair, IEEE 802 Executive Committee