IEEE 802.16 Working Group on Broadband Wireless Access

http://WirelessMAN.org

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To: Peter Wery, Chair, ITU-T SG 15

The IEEE 802.16 Working Group (WG) on Broadband Wireless Access* acknowledges the two liaison statements of 5 November 2003 from SG 15, namely COM 15–LS 7–E (filed as our IEEE L802.16-03/12) and COM 15–LS 47–E (filed as our IEEE L802.16-03/13). We welcome this opportunity for a dialog with SG 15.

The IEEE 802.16 Working Group has developed IEEE Standard 802.16-2001 ("Air Interface for Fixed Broadband Wireless Access Systems") and several amendments (IEEE 802.16a-2003 and IEEE 802.16c-2002) as well as related coexistence and conformance standards. The IEEE 802.16 standard describes a wireless broadband access system for carrier-class last-mile access to public networks, both IP and ATM, with full QoS support. Depending on the frequency band and implementation details, an IEEE 802.16 access system could support a wide range of applications, from commercial services to residential applications in both urban and rural areas. The Working Group is actively continuing to refine, expand, and enhance the standards, with current efforts focused in three areas: (1) revising and updating the standard for fixed access; (2) enhancing the standard to add support for mobile terminals in the P802.16e project; (3) specifying additional conformance standards.

Regarding COM 15–LS 47–E, we value the information provided by Question 1/15 regarding your activities as Lead Study Group on Access Network Transport (ANT). In reviewing the ANT Standardisation Plan [TD 30 (PLEN), "Access Network Transport Standards Overview (v8)"], we see that IEEE 802.16 does fit quite well into this framework. Its use is quite similar to the discussion in Scenario 5, particular the 5b attachment on "The use of Radio in the Access Network," although we support services of a more general nature (ATM, IP, etc.) than shown there. We appreciate that you have added IEEE 802.16 to the ANT Standardisation Plan. We suggest the following modification to the entry:

Stds Body	Number	Title	Scen. Ref.	Classification				Medium				Interface				Pub Date/ Prop. Rev.
				G	O	A	Q	F	C	P	A	J	H	B	W	
IEEE	802.16	Air Interface for Fixed Broadband Wireless Access Systems	5b,5a	X							X				X	IEEE 802.16-2001 IEEE 802.16a-2003 IEEE 802.16c-2002 Prop. Rev: 2004

* The views expressed in this communication are those of the IEEE 802.16 Working Group and do not necessarily represent the views of the IEEE 802 LAN/MAN Standards Committee, the IEEE Standards Association, or the IEEE.

Also, we suggest the deletion of IEEE 802.14 from the table, as that project was withdrawn before completion of the work.

We also appreciate that you have added IEEE 802.16 to the ANT Work Plan (TD 31 (PLEN), "Access Network Transport Standards Work Plan, Issue 7").

Regarding COM 15–LS 7–E, we have taken note of the work of Q.2/15 regarding the management of Passive Optical Networks. Since these typically operate in point-to-multipoint configuration, as do IEEE 802.16 networks, we suppose that some management features may be common. We would like to pursue this question further. We recognize that SG 15 is not currently actively engaged in work regarding wireless networks but do perceive that wireless access networks like those based IEEE 802.16 might have significant synergy with existing SG 15 work. In particular, we believe that OAM issues such as management information, configuration control, performance monitoring, and maintenance could beneficially be advanced by SG 15.

We would like to pursue this issue further. At this time, we are not able to identify a suitable liaison officer to assist in this activity. However, we will seek to develop additional interest within the Working Group and hope to provide further information.

Sincerely,

Dr. Roger B. Marks
Chair, IEEE 802.16 Working Group on Broadband Wireless Access

cc: Paul Nikolich, Chair, IEEE 802 LAN/MAN Standards Committee
José Costa, IEEE 802.16 Liaison Officer to ITU-R
IEEE 802.18, ITU-R SG 8, ITU-R SG 9, ITU-R JRG 8A-9B, ITU-D Q.20/2, ITU-T SG 4