



Title: MEF Liaison regarding IEEE P802.16r Activity regarding Small Cell Backhaul

Date: January 31, 2013

Location: San Diego, CA, USA

Contacts: Nan Chen, President MEF ([nan@metroethernetforum.net](mailto:nan@metroethernetforum.net))  
Mike Bencheck, TC Co-Chair ([mike.bencheck@verizon.com](mailto:mike.bencheck@verizon.com))  
Raghu Ranganathan, TC Co-Chair ([rraghu@ciena.com](mailto:rraghu@ciena.com))

To: Roger B. Marks, Chair, IEEE 802.16 Working Group ([r.b.marks@ieee.org](mailto:r.b.marks@ieee.org))

CC: Eric Puetz, MEF Certification Committee Co-Chair ([ep3437@att.com](mailto:ep3437@att.com))  
Chris Donley, MEF Certification Committee Co-Chair  
([c.donley@cablelabs.com](mailto:c.donley@cablelabs.com))

From: Metro Ethernet Forum

Dear Mr. Marks,

The MEF appreciates your 17 January 2013 liaison providing an update on your progress on amending IEEE Std 802.16-2012 to address Small Cell Backhaul Applications in Project P802.16r. You also asked for our views on your architectural models shown in Annex 1 and 2.

Regarding the two architectural models options (Annex 1 and 2) we assume each dashed outline rectangle should be regarded as a Carrier Ethernet Network (CEN) instantiated using 802.16r. Note that MEF compliant networks are now called CEN which is a replacement term for MEN. Given that the rectangular area is an additional CEN (e.g. CEN "d"), Annex 1 would not fit well with MEF models that utilize only CENs from the Base Station (e.g., eNodeB) to the RAN Network Controller site (e.g., S-GW). It could fit better with a model that utilized a CEN and some other form of transport (e.g., IP) from the 802.16r CEN "d" to the RAN NC site (e.g., S-GW). It would be worth noting that the MEF interfaces are based on IEEE 802.1 interfaces.

Annex 2 would represent the case that utilizes only CENs from the Base Station (e.g., eNodeB) to the Controller site (e.g., S-GW) using an ENNI between CEN “d” and CEN b. This option is more aligned with MEF models.

Under an alternate assumption that the 802.16r rectangular area is not a separate CEN, but an access component within CEN “a” the interface between them would be an internal NNI which MEF does not specify.

Please contact the Certification Committee Co-chairs for further details on MEF certification.

All MEF approved technical specifications (including MEF 22.1 and 23.1) are publicly available at no cost on the web:

[http://metroethernetforum.org/page\\_loader.php?p\\_id=29](http://metroethernetforum.org/page_loader.php?p_id=29)

Along with each technical specification, an overview presentation is also available.

Please note that the next MEF meetings are:

- April 15-18, 2013 – Frankfurt, Germany
- July 22-25, 2013 – Montreal, Canada