

Project	<b>IEEE 802.16 Broadband Wireless Access Working Group</b> < <a href="http://ieee802.org/16">http://ieee802.org/16</a> >	
Title	<b>IEEE 802.16 TG3: Possible Strategies for the development of the PHY layer</b>	
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Re:	IEEE 802.16.3-01/08 (“Call for Improvements and Mergers, TG3 PHY”)	
Abstract	This document presents several possible strategies for the development of the PHY layer for TG3.	
Purpose	This document is to be used a starting point for a discussion.	
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## **TG3 PHY development:** **where to go and how do we continue**

Due to the possible power balance between the SC and the OFDM groups in TG3 and the recognition that, for the best interests of all parties, we have to finish the job, we present some possible strategies which can help us (IEEE 802.16 TG3 participants) decide what is the best way to proceed in the development process of the TG3 PHY.

As we see it today, the following strategies exist:

1. One of the groups (SC or OFDM) wins and develops the (SC or OFDM) PHY layer.
2. Merge the SC and OFDM and start converging to a common Base-Band processing (long time of convergence).
3. The two groups (SC and OFDM) suggest the combination of the two possible solutions for TG3, with some coordination to reach the market faster.
4. A version of Strategy 3 in which SC PHY layer is an amendment to the existing TG1 PHY in order to fit the TG3 channel and requirements.

We would like all parties to consider those strategies in order to finish the system definition in time and reach our defined goals.