**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | **Living List of SG100G Study Group Issues** |
| Date Submitted | Nov 2013 |
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| Re: |  |
| Abstract | This is a list of 100G study group issues. |
| Purpose |  |
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1. **What is the required data rate for small cell backhaul? 100 Gbps was targeted towards data center based upon 802.3bm. Is 802.3bm also targeted towards backhaul?**
2. **In regards to 3GPP fronthaul … is this an analog waveform? Is the CPRI interface suitable for servicing by IEEE802.15?**
3. **3 PHYs have are being targeted – is it required that all three support 100 Gbps or just one of the 3 PHY options achieve 100Gbps?**

1. **Is the generation of low phase noise for THz cost effective; that is, does coherent demodulation meet the 5C.**
2. **SG needs to issue a call for applications against narrower criteria consistent with the pending PAR and 5C.**
3. **In regards to switched point-to-point and fine beam alignment … what does fine beam adjustment mean?**
4. **What is the role of channel models in switched point-to-point? Does the committee need agreed upon channel models for any of the PHY options?**
5. **In the future, is it prudent to assign 15.3d document numbers to THz general interest contributions or should these documents have their own document numbering method?**
6. **The SG needs to understand the MAC modification implications of being IEEE802.1ac compliant.**