**IEEE P802.15**

**Wireless Personal Area Networks**

|  |  |  |
| --- | --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **Living List of SG100G Study Group Issues** | |
| Date Submitted | Nov 2013 | |
| Source | [Roberts, Richard D] [Intel Labs] [address] | Voice: [ ] Fax: [ ] E-mail: [richard.d.roberts@intel.com] |
| Re: |  | |
| Abstract | This is a list of 100G study group issues. | |
| Purpose |  | |
| Notice | This document has been prepared to assist the IEEE P802.15. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein. | |
| Release | The contributor acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by P802.15. | |

1. **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. **In regards to switched point-to-point and fine beam alignment … what does fine beam adjustment mean?**
3. **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?**
4. **The SG needs to understand the MAC modification implications of being IEEE802.1ac compliant.**
5. **The emergence of the full-duplex MAC in association with possible PHYs needs further study.**