**IEEE P802.15**

**Wireless Personal Area Networks**

|  |  |  |
| --- | --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **TG10 - TGD Scenario Parameters** | |
| Date Submitted | [14th May, 2014] | |
| Source | Clint Powell [PWC, LLC] | Voice: []  Fax: [] E-mail: [cpowell@ieee.org] |
| Re: | [Supporting TGD Revision for Call for Final Proposals (CfFP)] | |
| Abstract | [Scenario Parameters for CfFP - Working Document] | |
| Purpose | [Scenario Parameters Matrix] | |
| 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. | |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Scenarios** | | |
| **Parameter** | **Mostly Upstream:**  **Smart metering, Infrastructure monitoring, Irrigation Optimization** | **Mostly Downstream:**  **Street lighting, Smart lighting** | **Balanced Upstream and Downstream:**  **CEMS, BEMS, HEMS** |
| Packet size |  |  |  |
| Data rate |  |  |  |
| Packet birth rate |  |  |  |
| Duty cycle |  |  |  |
| Node density |  |  |  |
| Mobile devices (Y/N) & speed |  |  |  |
| PAN Coord. 2MP (Y/N) |  |  |  |
| MP2 PAN Coord. (Y/N) |  |  |  |
| MP2P\* |  |  |  |
| Multicast (Y/N) |  |  |  |
| Broadcast (Y/N) |  |  |  |
| Linear (Y/N) |  |  |  |

\*MP2P - Multi-Point to Point

Other parameters to consider:

* Link Failure Model:
* Transmission power: 0 dBm
* Receiver sensitivity:
* Path Loss Model: Two-Ray