**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title |  | |
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| Re: | [] | |
| Abstract | [Subclauses 7.4.16] | |
| Purpose | [Description of what the authors wants P802.15 to do with the information in the document.] | |
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**7.4.16 Visible Frame Transmission command**

|  |  |  |
| --- | --- | --- |
| Octets:7 | 1 | 1 |
| MHR fields | Command frame identifier(see table 73) | Visible Frame Transmission |

The VF should be transmitted depends on bi-directional, multicasting and broadcasting capabilities. When the device sends visible frame to the coordinator, it can sometimes cause interference to other devices because different user use different time slot. To reduce interference, the device may not send the visible frame. In broadcasting case, VF should not be used in uplink case. In bi-directional or multicasting case, the coordinator should decide whether the device transmits the VF to the coordinator or not. It is not power efficient for some battery-powered device to maintain continuous visibility. So in peer to peer case, the visible frame may not be used to reduce power consumption. To use the VF, the coordinator should transmit VF\_info\_type which is defined in table 1 to the device.

**7.4.16.1 Visible Frame Transmission**

The Visible Frame Transmission field is 1 bit in length and shall be set to one if the device sending visible frame. This subfield shall be set zero otherwise.

Table. Visible Frame Transmission

|  |  |  |  |
| --- | --- | --- | --- |
| **Management payload**  **Filed** | **Bit** | **Usage / Description** | **Down/Up Link** |
| VF\_info\_type | 1 | using Visible Frame transmission  set 1: Receiver transmit the Visible Frame  set 0: Receiver Does Not transmit the Visible Frame | D/L |