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| Project | **IEEE 802.21 Working Group for Media Independent Services**  **<**[**http://www.ieee802.org/21/**](http://www.ieee802.org/21/)**>** |
| Title | **Liaison-letter-to-IEEE-802-21** |
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| Re: | IEEE 802.21 Session #80 in Daejeon, Korea |
| Abstract | This contribution is Liaison letter within IEEE 802.21 and IEEE P3333.3 |
| Purpose | To propose exchange information about the Network standard of HMD based VR technologies. |
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April 27, 2017

**To:** Subir Das, Chair of IEEE 802.21 WG

cc: Paul Nikolich, Chair of IEEE 802 LMSC

**Subject: IEEE P3333.3 HMD based 3D Content Motion Sickness Reducing Technology Network Handover Problem Solving**

Dear Subir,

This letter is to seek an opportunity to form a liaison partnership between P3333.3 WG and 802.21 WG. P3333.3 is a working group established to provide industrial standards that can help VR HMD manufacturers and VR content creators to reduce motion sickness caused by the use of VR HMD. We are allowing any individual to participate and freely discuss their opinions similar to what 802 is operating. Our WG is divided into six task groups that can help to identify some of the factors causing the motion sickness problem and to develop the general standard scopes and procedures that can reduce this problem. You can find the general structure of the working from the following link: <https://mentor.ieee.org/3333.3/dcn/17/3-17-0027-00-0000-ieee-p3333-3-structure-and-management.pdf>

As you can find it from the document above, the Network TG in P3333.3 is exploring to establish minimum network requirements to reduce the motion sickness people experience when using a VR HMD and one of the concerns raised in our first meeting in April, 2017 is the network handover when there is a change in wireless connection. We understand that IEEE 802.21 is the WG tackling this issue and we would be much interested in working with your WG to tackle the same problem for virtual reality. Currently, we have not been able to appoint a chair for the Network TG; hence, finalizing the required scopes for this liaison partnership would be premature but the purpose of this letter is to find an intent for your working group to exchange necessary information that will help us to achieve our goal.

The IEEE P3333.3 WG had a meeting in Seoul, Korea from April 24, 2017 to April 27, 2017 and the progress of the meeting can be found at the following link:

<https://mentor.ieee.org/3333.3/dcn/17/3-17-0023-01-0000-session-12-agenda.docx>

The IEEE P3333.3 WG is planning to host another meeting in New York from July 24 to 27, 2017 and we will be more than happy to invite you and your members to participate. We are very much looking forward to further discussion and cooperation with IEEE 802.21 WG while developing the minimum network requirements to reduce the motion sickness people experience while using a VR HMD.

Best Regards,

Dillon Seo, Chair of IEEE P3333.3 WG