IEEE P802.11
Wireless LANs

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| Liaison from NUFRONT  |
| Date: 2019-03-20 |
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Abstract

This document contains an email received from Nufront with a request to the IEEE 802.11 WG:

*“we are exploring the possibility of further cooperation and integration between EUHT wireless communication technology and the IEEE 802.11 Working Group. As a result, IEEE and Nufront can submit the joint proposal to ITU as 5G standard.”*

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| **Received from** | **Jun Lei, VP of Technology of Nufront Technologies Group,** **ted.lei@nufront.com** |
| cc: | "fenghua.chen" <fenghua.chen@nufront.com>,"dsbao@nufront.com" <dsbao@nufront.com>,"li.yang" <li.yang@nufront.com> |
| date: | Mar 13, 2019, 1:46 AM |
| **subject:** | **Nufront is willing to submit joint 5G proposal with IEEE to ITU** |
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Dear Ms. Stanley,

My name is Jun Lei, the VP of Technology of Nufront Technologies Group. I attended the IEEE 802.11 meeting several times and got a lot help from Stephens Adrian and Bruce Kraemer, which is highly appreciated.

For your information, we are exploring the possibility of further cooperation and integration between EUHT wireless communication technology and the IEEE 802.11 Working Group. As a result, IEEE and Nufront can submit the joint proposal to ITU as 5G standard.

Would you please take some time to give us some suggestions? Thank you!

**(1) About NUFRONT and EUHT.**

Nufront is a private company based in Beijing. Founded in 2004, now there are over 500 engineers in Nufront.

EUHT(Enhanced Ultra-High Throughput) is an innovative wireless communication system designed by Nufront in 2006, which has been deployed in high speed train, metro and industrial internet.

**(2) NUFRONT has a strong cooperation foundation with the IEEE 802.11 Working Group.**

In fact, the IEEE 802.11 Working Group has been familiar with NUFRONT and EUHT long time ago. As early as 2013, NUFRONT has submitted to the IEEE 802.11 Working Group a proposal about EUHT wireless communication technology. The technological advancement of EUHT was recognized by many experts of IEEE. Mr. Bruce Kraemer, the chairman of the working group, also made a special trip to Beijing to visit our company.

**(3) NUFRONT is willing to work with the IEEE 802.11 Working Group to promote the 5G standardization within 3GPP, but we do not recommend it.**

We understand that the IEEE 802.11 Working Group is considering applying for the 5G standard. At present, however, it seems that the IEEE 802.11 Working Group can only strive to become part of the technical solution for unlicensed spectrum in the 3GPP 5G standard by submitting reports. As a member company of 3GPP, NUFRONT can assist IEEE in the promotion in 3GPP. However, according to our experience, 3GPP will not accept the proposal of IEEE. In fact, 3GPP did not even respond formally to the report. Moreover, 3GPP itself is also working on the standard NR-U for unlicensed spectrum. We believe that the IEEE 802.11 Working Group is also aware of the above situation, and there is an intention to apply for the 5G standard directly to the ITU.

**(4) NUFRONT is willing to cooperate with IEEE to submit 5G standards directly to ITU.**

The prerequisite for submitting the 5G standard directly to the ITU is that the technical solution must meet the requirements of 5G, that is, not only to provide hotspot large-capacity coverage, but also to support high-speed mobility and URLLC. NUFRONT’s EUHT wireless communication technology is the best in the world in this respect, and has been commercialized on high-speed rail, subway, industrial interconnection, V2V and V2X. We note that 802.11ax is very similar to EUHT in terms of overall architecture and technical parameters. Therefore, we believe that EUHT and IEEE 802.11 could be highly integrated. Based on this integration, the IEEE 802.11 related technologies will support high-speed mobility, ultra-high reliability, ultra-low latency, and large-scale networking. Moreover, it is certain that the IEEE 802.11 related technologies will be applied to high-speed rail, subway, industrial interconnection, V2V and V2X in the world earlier than 3GPP 5G. On this basis, the two sides can discuss the application of international standards for 5G URLLC to ITU.

Best regards,

Jun Lei

March 13, 2019

**References:**