**IEEE P802.15**

**Wireless Specialty Networks**

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| Project | IEEE P802.15 Working Group for Wireless Specialty Networks (WSNs) | |
| Title | **Responses to Nescom’s comments** | |
| Date Submitted | May 11th, 2022 | |
| Source | Marco Hernandez,  Ruyji Kohno  Takumi Kobayashi,  Minsoo Kim  YRP-AIA Yokohama National University 79-5 Tokiwadai, Hodogaya-ku, Yokohama, 240-8501 Japan | Phone: +81-45-339-4115, 4116, 4117 Fax: +81-45-339-4113 Email: [kohno@ynu.ac.jp](mailto:kohno@ynu.ac.jp)  kobayashi-takumi-ch@ynu.ac.jp  [minsoo@minsookim.com](mailto:minsoo@minsookim.com)  marco.hernandez@ieee.org |
| Re: | Revision of IEEE Std 802.15.6 Wireless Body Area Networks | |
| Abstract | Responses to Nescom’s comments | |
| Purpose | For discussion in TG 802.15.6a | |
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Nescom Comments

# 802.15.6a Withdrawal

Wording is a bit contradictory; first it says that 802.15.6 will expire without revision; then it says that the content of the amendment will be included in a new revision project. There is a PAR open for the revision of 802.15.6. Suggest rewording for clarity (if this is what is intended): IEEE 802.15.6:2012, Standard for Local and metropolitan area networks - Part 15.6: Wireless Body Area Networks will expire this year and a PAR for its revision is submitted for this NesCom agenda, so the amendment PAR 802:15.6a for the 2012 version is no longer needed.

Accept.

New text:

IEEE 802.15.6:2012, Standard for Local and metropolitan area networks - Part 15.6: Wireless Body Area Networks will expire this year and a PAR for its revision is submitted for this NesCom agenda, so the amendment PAR 802.15.6a for the 2012 version is no longer needed.

# 802.15.6a Revision

**1.** 27 Mar 2022 12:40:29 UTC-12

Section 5.2 states that the standard defines short-range, wireless communication in the vicinity of, or inside, a human body (but not limited to humans) to support enhanced dependability to human body area networks (HBAN) in the industrial scientific medical (ISM) bands as well as frequency bands approved by national medical and regulatory authorities.

1- Can you please confirm if the existing standard complies with all national medical and regulatory authorities’ frequency bands requirements of all countries in different regions.

2- Will the Revision PAR address such gaps (if any)?

3- Is it a better approach to focus only on ISM bands with no notion of national country specific compliance?

Accept in principle: change “as well as frequency bands approved by national medical and regulatory authorities.” with “and support of local medical regulations”

New text:

short-range, wireless communication in the vicinity of, or inside, a human body (but not limited to humans) to support enhanced dependability to human body area networks (HBAN) in the industrial scientific medical (ISM) bands and support of local medical regulations.

**2.** Ramy Fathy NesCom Member - Approve Show/Add Replies 0

27 Mar 2022 12:41:21 UTC-12

5.4 Purpose Section: Data rates satisfy an evolutionary set of entertainment and healthcare services [for] various population segments.

Editorial: missing preposition [for]. Suggest adding [for] as illustrated above.

Accept.

New text:

Data rates satisfy an evolutionary set of entertainment and healthcare services for various population segments.

**3.** Ramy Fathy NesCom Member - Approve Show/Add Replies 0

27 Mar 2022 12:42:02 UTC-12

5.4 Purpose Section: ‘Data rates satisfy an evolutionary set of entertainment and healthcare services [for] various population segments.’

‘Evolutionary’ gives an open-ended target which might not be possible to be realized. Suggest removing this adjective or replacing with a more precise term (e.g. ‘satisfy a set of…’, ‘satisfy different entertainment and healthcare…’).

Accept in principle:

New text:

Sentence change to “Data rates satisfy a set of entertainment and healthcare services for various population segments.”

**4.** Lisa Weisser NesCom Administrator Show/Add Replies 0

30 Mar 2022 10:36:36 UTC-12

3.1 - The WG Chair information is missing. This information is necessary for PAR approval. The NesCom Administrator is unable to edit the PAR to add this information, because the information populates onto the PAR from myProject. You will need to work with your Standards Committee Chair or Standards Representative and possibly your IEEE SA staff liaison to assign the chair so that the correct information will appear on the PAR.

Accept.

**5.** Annette Reilly NesCom Member Show/Add Replies 0

30 Mar 2022 10:37:47 UTC-12

5.2 The wording "a human body (but not limited to humans)" is unfortunate, leading to the assumption that it may apply to other body-invading creatures. Perhaps"a human body, which may be communicating with a vehicle or external device" is what is meant. Please reword to remove "but not limited to" which is inappropriate in a scope statement.

Accept in principle.

New text:

This is a standard for short-range, wireless communication in the vicinity of, or inside, an environment such as a human body, vehicle body or both.

**6.** Annette Reilly NesCom Member Show/Add Replies 0

30 Mar 2022 10:40:15 UTC-12

5.5 For a revision PAR, this section should explain why the original standard needs to be revised, i.e., what is changing from the 2012 version.

Accept in principle:

New text:

The project increases the dependability provided by IEEE 802.15.6a-2012 Std against interference and contention…”

“The project adds support for automotive use”

# Clarification

Nescom received the responses via the 802.15 Chair. Nescom staff made the changes to the PARs as those are considered editorial.

We are waiting for Nescom's approval.