P1938.1

Submitter Email: andrewsonsolutions@gmail.com
Type of Project: New IEEE Standard
PAR Request Date: 14-Dec-2018
PAR Approval Date: 08-Feb-2019
PAR Expiration Date: 31-Dec-2023
Status: PAR for a New IEEE Standard

1.1 Project Number: P1938.1
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for Software Defined Protocol and Functional Requirements for Improvement of the Signal-to-Noise Ratio (SNR) in Communications Channels

3.1 Working Group: Signal/Noise Ratio (COM/NetSoft-SC/SNR)
Contact Information for Working Group Chair
Name: Andrew Clasen
Email Address: andrewsonsolutions@gmail.com
Phone: 8305159916
Contact Information for Working Group Vice-Chair
None

3.2 Sponsoring Society and Committee: IEEE Communications Society/Virtualized and Software Defined Networks, and Services Standards Committee (COM/NetSoft-SC)
Contact Information for Sponsor Chair
Name: Mehmet Ulema
Email Address: m.ulema@ieee.org
Phone: +1 732 957-0924
Contact Information for Standards Representative
None

4.1 Type of Ballot: Individual
4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 01/2020
4.3 Projected Completion Date for Submittal to RevCom
Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 08/2020

5.1 Approximate number of people expected to be actively involved in the development of this project: 15
5.2 Scope: This standard defines functional requirements for software defined linear digital signal processing (DSP) to improve the Signal-to-Noise Ratio (SNR) in communication channels.
Also, it defines software defined protocol used by two or more communicating devices, that negotiates and coordinates the use of the aforementioned functional requirements for linear DSP improvement of SNR in communication channels.

5.3 Is the completion of this standard dependent upon the completion of another standard: No
5.4 Purpose: This document will not include a purpose clause.
5.5 Need for the Project: Increasing interference across the electromagnetic spectrum necessitates improvements in signal transmission and reception. Currently, increasing both power at the source of transmission, and sensitivity of the receptor have practical and financial limitations. Instead, a linear solution that works through software to optimize current information being brought in by the receiver has many advantages. Increasing reception quality across devices connected to a network, alleviating the need for extensive infrastructure, as well as many other benefits, can be achieved with a software defined solution such as this.

5.6 Stakeholders for the Standard: -Telecom companies (Verizon, Comcast, Time Warner Cable, etc.)
-Internet users of all sorts (Consumers, Businesses, B2B, B2C, etc.)
-Chip Manufacturers (Intel, Samsung, Texas Instruments, Qualcom, etc.)
-Device manufacturers (Google, Apple, Samsung, Dell, HP, etc.)
-Modem and Router Producers (Netgear, D-Link, Linksys, etc.)

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

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7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

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8.1 Additional Explanatory Notes: