

# **ANSI/CTA Standard**

**Standard for Consumer EEG File Format  
(Attuned Container Format)**

**ANSI/CTA-2060**

**November 2017**



**Consumer  
Technology  
Association™**

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(Formulated under the cognizance of the CTA **R6.4 Health & Fitness Technology Subcommittee.**)

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## **FOREWORD**

This standard was developed by the Consumer Technology Association's Consumer EEG Data subcommittee.

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## **Standard for Consumer EEG File Format (Attuned Container Format)**

### **1 Scope**

This standard describes an extensible container file format for time-synchronized multi-channel time-series data of various types, with a focus on biosignal data such as EEG, EMG, EOG, ECG, GSR, MEG, nNIRS, fMRI, and event markers. Other data types are addressed by vendor-specific or general-interest extensions (e.g., accelerometer, gyroscope, PCM/MP3 audio, raw/H.264 video).

### **2 References**

#### **2.1 Normative References**

The following standards contain provisions that, through reference in this text, constitute normative provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed here.

##### **2.1.1 Normative Reference List**

1. IEEE Std 754-2008 – IEEE Standard for Floating-Point Arithmetic, August, 2008
2. The Unicode Standard, Version 8.0.0
3. Extensible Markup Language (XML) 1.0 (Fifth Edition)
4. ISO 8601, Date and Time Format

##### **2.1.2 Normative Reference Acquisition**

1. IEEE 445 Hoes Lane, Piscataway, NJ 08854-4141 USA; Tel: +1 732 981 0060; Internet: <http://dx.doi.org/10.1109/IEEESTD.2008.4610935>, [standards.ieee.org](http://standards.ieee.org)
2. The Unicode Consortium, Mountain View, CA; ISBN 978-1-936213-10-8; Internet: <http://www.unicode.org/versions/Unicode8.0.0>
3. The World Wide Web Consortium (W3C); Internet: [www.w3.org](http://www.w3.org)
4. [International Organization for Standardization www.iso.org](http://www.iso.org)

### **2.2 Informative References**

The following references contain provisions that, through reference in this text, constitute informative provisions of this standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below.