1. Project Number: P2558
2. Type of Document: Standard
3. Life Cycle: Full Use

2.1 Title: Standard for Ambient Objects

3.1 Working Group: Ambient Smart Objects (COM/EdgeCloud-SC/Ambient Objects)

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None

3.2 Sponsoring Society and Committee: IEEE Communications Society/Edge, Fog, Cloud Communications with IOT and Big Data Standards Committee (COM/EdgeCloud-SC)

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None

4. Type of Ballot: Entity
4.1 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 01/2019
4.2 Projected Completion Date for Submittal to RevCom
Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 10/2019

5. Approximate number of entities expected to be actively involved in the development of this project: 50

5.1 Scope: This standard is to define the Ambient Smart Objects definitions, frameworks, distributed ledger, and requirements. Ambient Smart Objects are physical or cyber objects that describe their own possible interactions and capabilities. Ambient smart object frameworks include ways to describe, identify, and interact with those objects and brokerage from an architecture and economic perspective. As the Internet of Things, Fog, Edge, and Ambient proliferates, frameworks and technologies like OPC Foundation Unified Architecture (OPC-UA), Open Connectivity Foundation (OCF), Project Haystack, and even Docker can simplify the development and maintenance of IoT applications, especially those that require the use of localized computing resources that an Ambient Genetics frameworks can ideally supply.

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: This standard fills a void for the definition, standard around a new type of self-aware, ambient objects utilizing the concepts of genetics, combined with distributed ledger and transaction management systems for ad-hoc communities.

5.6 Stakeholders for the Standard: Smart Cities, Telecom, Consumer Electronics, Semiconductor, Automotive, Retail, Industrial Systems, Service Provider, Value Added Reseller

6. 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
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

8.1 Additional Explanatory Notes: This standard is needed to aid the understanding of and define common interoperability and data models for self-aware/ambient objects, systems and their job as individuals and members in ad-hoc communities.