P1903

Submitter Email: c.siller@comsoc.org
Type of Project: Modify Existing Approved PAR
PAR Request Date: 25-May-2011
PAR Approval Date: 10-Sep-2011
PAR Expiration Date: 31-Dec-2012
Status: Modification to a Previously Approved PAR
Root PAR: P1903 **Approved on:** 27-Mar-2008

1.1 Project Number: P1903
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for the Functional Architecture of Next Generation Service Overlay Networks

Changes in title: Standard for ~~a~~the Functional Architecture of Next Generation Service Overlay ~~Network~~Networks

3.1 Working Group: Next Generation Service Overlay Network (COM/SC/NGSON)
Contact Information for Working Group Chair
Name: Richard Townsend
Email Address: ricktownsend@roadrunner.com
Phone: 207 647 9015
Contact Information for Working Group Vice-Chair
None

3.2 Sponsoring Society and Committee: IEEE Communications Society/Standards Committee (COM/SC)
Contact Information for Sponsor Chair
Name: Curtis Siller
Email Address: c.siller@comsoc.org
Phone: 480 857 0192
Contact Information for Standards Representative
None

4.1 Type of Ballot: Entity
4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 05/2011
4.3 Projected Completion Date for Submittal to RevCom: 02/2012

5.1 Approximate number of entities expected to be actively involved in the development of this project: 10

5.2 Scope: This Next Generation Service Overlay Network (NGSON) standard describes a framework of Internet Protocol(IP)-based service overlay networks and specifies context-aware (e.g., such as required Quality of Service (QoS) level, type of service such as real-time vs. data, nature of data stream such as I-frame vs. B-frame, and type of terminal such as TV monitor vs. personal digital assistant), dynamically adaptive (e.g., using locally derived information to discover, organize, and maintain traffic flows in the network within a local area network), and self-organizing networking capabilities (e.g., developing network structures based on the needs of the customers and the capabilities of existing network structures), including advanced routing and forwarding schemes, and that are independent of underlying networks.

The NGSON architecture provides advanced service and transport-related functions to support context-aware, dynamically adaptive, and self-organizing networks. This standard specifies a functional architecture for NGSON. The functional architecture consists of a set of functional entities (FEs), their functions, reference points and information flows to illustrate service interaction and media delivery among FEs and external components.

NGSON may operate with different underlying networks such

Changes in scope: This Next Generation Service Overlay Network (NGSON) standard describes a framework of Internet Protocol(IP)-based service overlay networks and specifies context-aware~~,~~ (e.g., such as required Quality of Service (QoS) level, type of service such as real-time vs. data, nature of data stream such as I-frame vs. B-frame, and type of terminal such as TV monitor vs. ~~Personal~~personal ~~Digital~~digital ~~Assistent~~assistant), dynamically adaptive (e.g., using locally derived information to discover, organize, and maintain traffic flows in the network within a local area network), and self-organizing networking capabilities (e.g., developing network structures based on the needs of the customers and the capabilities of existing network structures), including advanced routing and forwarding schemes, and that are independent of underlying networks.

The NGSON architecture provides advanced service and transport-related functions to support context-aware, dynamically adaptive, and self-organizing networks. This standard specifies a functional architecture for NGSON. The functional architecture consists of a set of functional entities (FEs), their functions, reference points and information flows to illustrate service interaction and media delivery among FEs and external components.

as IMS, NGN, P2P overlay or Web to transmit NGSON signaling messages and/or media among its users and services. Specifications of underlying networks are outside scope of this standard.

NGSON may operate with different underlying networks such as IMS, NGN, P2P overlay or Web to transmit NGSON signaling messages and/or media among its users and services. Specifications of underlying networks are outside scope of this standard.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: The purpose of this standard is to enable network operators, service/content providers, and end-users to provide and consume composite services by the deployment of context-aware, dynamically adaptive, and self-organizing networking capabilities.

Changes in purpose: The purpose of this standard is to enable network operators, service/content providers, and end-users to provide and consume ~~collaborative~~composite services by the deployment of context-aware, dynamically adaptive, and self-organizing networking capabilities.

5.5 Need for the Project: The amount of services and applications and their interaction are increasing at an exponential rate. This standard is needed to provide a better, more efficient way of providing these services and applications by means of context-aware, dynamically adaptive, and self-organizing networking capabilities.

5.6 Stakeholders for the Standard: Stakeholders for this standard include Network Operators, Service/Content Providers, Equipment suppliers and the Public.

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 (Item Number and Explanation): Title, scope, and purpose clause have been modified during the draft development.

Title: Added "Functional Architecture of" and made "network" plural.
Scope: Refined the original scope and added two more paragraphs.
Purpose: Replaced "collaborative services" with "composite services "