IEEE P802.11 Wireless LANs

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| Draft TGaq Terminology |
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Abstract

This document defines terminology for 802.11 TGaq.

# Introduction

This document includes a collection of terms and definitions related to IEEE 802.11aq Pre-Association Discovery. The purpose of this document is to promote consistent use of terminology to describe Pre-Association Discovery throughout the development process of the 802.11aq project [1] [2] [3]. The definitions in this document will eventually be integrated into the 802.11aq amendment draft.

# Revision History

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| Revision | Date | Comments |
| R0 | 3/18/2013 | First draft. |
| R1 | 7/18/2013 | Added IEEE-STD-100 based, and other sources, term definitions |
| R2 | 9/16/2013 | Implemented changes discussed in the July 2013 meeting |
| R3 | 9/17/2013 | Minor updates based on presentation at the September 2013 meeting |
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# Definitions, acronyms, and abbreviations

## Definitions

**3GPP Access Network Discovery and Selection Function (ANDSF):** An entity within a 3GPP Evolved Packet Core (EPC) of the system architecture evolution (SAE), for 3GPP compliant mobile networks. The purpose of the ANDSF is to assist user equipment (UE) to discover non-3GPP access networks, such as WLAN, that can be used for data communications in addition to 3GPP access networks, such as HSPA or LTE, and to provide the UE with rules policing the connection to these networks.

**Application:** All the software that causes a device to perform a particular useful task beyond the running of the device itself.

**Bonjour:** A popular implementation of Zero configuration networking (Zeroconf), a group of technologies that includes service discovery, address assignment, and hostname resolution. Bonjour locates devices such as printers, other computers, and the services that those devices offer on a local network using multicast Domain Name System (mDNS) service records.

**Proximity:** Nearness in space, within the reception range of a radio frequency (RF) signal.

**Service**: An independently operable component of a peer unit that processes requests and associated data from clients in other peer units (peer services). Or an action or response initiated by a process (i.e., a server) at the request of some other process (i.e., a client) (peer and client services).

**Service Discovery**: The process of finding services that match the requirements of the service requestor. It includes procedures for querying and browsing for services offered by, or through, another STA.

**Service Discovery Protocols (SDPs):** Network protocols that allow automatic detection of STAs and services offered by these STAs on a computer/wireless network. Service discovery requires a common language to allow software agents to make use of one another's services without the need for continuous user intervention. Examples of service discovery protocols include Bluetooth Service Discovery Protocol (SDP), DNS Service Discovery (DNS-SD) as used in Bonjour, Dynamic Host Configuration Protocol (DHCP), Internet Storage Name Service (iSNS), Service Location Protocol (SLP), Simple Service Discovery Protocol (SSDP) as used in Universal Plug and Play (UPnP), Universal Description Discovery and Integration (UDDI) for web services, Web Proxy Autodiscovery Protocol (WPAD), WS-Discovery (Web Services Dynamic Discovery), and XMPP Service Discovery (XEP-0030).

**Universal Plug and Play (UPnP):** A set of networking protocols that permit networked devices, such as personal computers, printers, Internet gateways, access points and mobile devices to seamlessly discover each other's presence on the network and establish functional network services for data sharing, communications, and entertainment. The UPnP architecture is a distributed open networking architecture that leverages TCP/IP and the Web to enable seamless proximity networking in addition to control and data transfer among networked devices. UPnP technology is independent of any particular operating system, programming language, or network technology.

## Definitions specific to IEEE 802.11

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## Abbreviations and acronyms

ANDSF Access Network Discovery and Selection Function

App Application

SDP Service Discovery Protocol

SLP Service Location Protocol

SSDP Simple Service Discovery Protocol

UPnP Universal Plug and Play

# References:

[1]. 11-12-1081-06-0pad-draft-par-proposal

[2]. 11-12-1416-00-0pad-use-cases-and-requirements

[3]. 11-13-0125-03-00aq-use-case-analysis

[4]. IEEE Standards Definition Database online : http:// <http://dictionary.ieee.org/>