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. |
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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 Wi-Fi, 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: A software program or process that causes a computing device to perform useful tasks beyond the running of the computing device itself.

Bonjour: Apple’s 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: The quality or state of being within the reception range of radio frequency (RF) signal.

Service: A software process that provides functionality to other Services or Applications.

Service Discovery: The process of finding services that match the requirements of the service requestor.

Service Discovery Protocols (SDPs): Network protocols that allow automatic detection of devices and services offered by these devices 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, Wi-Fi 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.

## Definitions specific to IEEE 802.11

## 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