**IEEE P802.15**

**Wireless Personal Area Networks**

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| Re: |  | |
| Abstract | This is the draft version of 802.15.8 PAC Framework Document. | |
| Purpose | This document provides the framework from which the draft PAC specification will be developed. The document provides an outline of each the functional blocks that will be a part of the final specification. The document is intended to reflect the working consensus of the group on the broad outline for the draft specification. As such it is expected to begin with minimal detail reflecting agreement on specific techniques and highlighting areas on which agreement is still required. It may also begin with an incomplete feature list with additional features added as they are justified. The document will evolve over time until it includes sufficient detail on all the functional blocks and their inter-dependencies so that work can begin on the draft specification itself. | |
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| Patent Policy | The contributor is familiar with the IEEE-SA Patent Policy and Procedures:  <http://standards.ieee.org/guides/bylaws/sect6-7.html#6> and  <http://standards.ieee.org/guides/opman/sect6.html#6.3>.  Further information is located at <http://standards.ieee.org/board/pat/pat-material.html> and  <http://standards.ieee.org/board/pat>. | |

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# Overview

The 802.15.8 specification shall be developed according to the P802.15.8 Peer Aware Communication (PAC) project authorization request (PAR), document number 15-12-0063r2 and Five Criteria (5c), document number 15-12-0064r1, which were approved by the IEEE-SA in March of 2012.

# Definitions

# Abbreviations and acronyms

PD PAC Device

# General descriptions

This clause provides the basic framework of PDs. The framework serves as a guideline in developing the functionalities of PDs and their interactions specified in detail in the subsequent clauses.

## Concepts and architecture

## Topology

## Reference model

# MAC layer

## MPDU structure

## Multiple access

e.g. Contention-based access, Contention-free access

## Synchronization procedure

## Discovery procedure

## Peering procedure

## Scheduling

## QoS

## Interference management

## Transmit power control

## Multicast

## Broadcast

## Multi-hop operation

## Relative positioning

## Power management

## Security

## Coexistence

## Higher layer interaction

# Physical layer

## Channelization

### Operating frequency bands

## Duplex schemes

## Multiple access schemes (e.g. CDMA, OFDMA)

## Frame structure

### Discovery frame structure

### Data frame structure

## Modulation and coding scheme (MCS)

### Data rates

## Multiple antennas