IEEE P802.11
Wireless LANs

Proposed text to 11-14/0980r5

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| Proposed text to TGax Simulation Scenarios U-APSD test |
| Date: Jan 12, 2015 |
| Authors and Contributors |
| Name | Company | Address | Phone | Email |
| Yanchun Li | Huawei Technology | Bantian Longgang Shenzhen 518129 P.R. China | +86-15337257958 | liyanchun@huawei.com |
| Yunbo Li | Huawei Technology | Bantian Longgang Shenzhen 518129 P.R. China | +86-18666203037 | liyunbo@huawei.com |
| Zhou Lan | Huawei Technology | Bantian Longgang Shenzhen 518129 P.R. China | +86-18565826350 | lanzhou1@huawei.com |
| Jarkko Kneckt | Nokia Corporation | Otaniementie 19b 02150 Espoo Finland |  | Jarkko.kneckt@nokia.com |
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# Summary:

The following changes are suggested for the MAC simulator section of the simulation scenario document [1]:

1. ProbeDelay
2. Remove 24kbps Codec
3. Change figure to add ProbeDelay
4. Remove Beacon
5. Suggest to use table instead of piecharts. Just tables of the operation time/energy in PHY states are more informative and are more convenient for comparing results from different contributors.

# Proposed text changes in <Test 5: Power Save Mechanism Test>

**U-APSD test**

 Figure 13 – Example of the frameflow and backoff in U-APSD scenario and non-AP STA Power States.

* MSDU length:  120 bytes with CWmin=15  (once every 40 ms) for both uplink and downlink

Power save test parameters

* AIFS=DIFS=34us
* RTS/CTS [ OFF ]
* MCS = [ 0 ]
* Beacon is not transmitted in U-APSD test
* Max SP Length = [ 4 ]
* ProbeDelay = 100µs

Output:

* MAC throughput
* Table (breakdown) of time spent in each power state during the course of the simulation

|  |  |  |
| --- | --- | --- |
|  | STA (%) | AP (%) |
|  | Searching  | RX  | TX  | Sleeping  | Searching  | RX  | TX  | Sleeping  |
| U-APSD on  |  |  |  |  |  |  |  |  |
| U-APSD off  |  |  |  |  |  |  |  |  |

* Table (breakdown) of energy consumed in each power state during the course of the simulation

|  |  |  |
| --- | --- | --- |
|  | STA (Watt) | AP (Watt) |
|  | Searching  | RX  | TX  | Sleeping  | Searching  | RX  | TX  | Sleeping  |
| U-APSD on  |  |  |  |  |  |  |  |  |
| U-APSD off  |  |  |  |  |  |  |  |  |

# Reference

[1] 11-14/0980r05, “Simulation Scenarios”, Simone Merlin (Qualcomm)