IEEE P802.11
Wireless LANs

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| Resolution for CID 2725 |
| Date: 2010-01-20 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Jarkko Kneckt | Nokia Corporation | Rakentajainrinne 6, 02330 Espoo, Finland |  | Jarkko.Kneckt@Nokia.com |
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Abstract

This document solves the CID 2725.

**Comment:**

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| **CID** | **Comment / Explanation** | **Recommended Change** | **Resolution Code** | **Resolution Notes** |
| **2725** | **Sentence reads: "Group addressed frames with source address equal to the known portal address shall be the last transmitted group addressed frames." This rule is too restrctive. Enqueue policy should be left to implementation specific. Also, the benefit of this operation is unclear.** | **Remove "Group addressed frames with source address equal to the known portal address shall be the last transmitted group addressed frames."** | **Counter** | **The Annex X is appended to contain reasoning for the group addressed frames scheduling order and hints how to apply the scheme.**  |

***Note for the editor:***

***Insert the new clause X.4.3 and renumber the following clauses accordingly***

X.4.3 Reducing stand-by power consumption

When the amount of transmitted traffic is low, typically the most transmitted traffic is group addressed frames to maintain the IP-level connectivity, i.e. ARP or DHCP, or group addressed frames generated by the service discovery protocols or group addressed or individually addressed frames generated by applications to maintain the connectivity.

When a MBSS has a portal to connect the MBSS to the internet or to other network, the portal will forward traffic from the other network and operate as source for the most group addressed frames for the MBSS. It is likely that the most group addressed traffic will be forwarded from internet and the portal will be the main source of group addressed frames.

The group addressed frames delivery in MBSS applies flooding principle. Each mesh STA will transmit once all the group addressed frames that it has received. Thus, one mesh STA should receive as many copies of the group addressed frames as it has peerings.

To reduce the reception of multiple copies of the group addressed transmissions, the frames which source address equals to portal address are transmitted as the last group addressed frames that are transmitted. Thus, the mesh STA may coordinate the amount of receptions of the group addressed frames which source address equals to portal address and improve its power efficiency.

**References:**