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| Project | **IEEE 802.21.1 Media Independent Services**  **<**[**http://www.ieee802.org/21/**](http://www.ieee802.org/21/)**>** |
| Title | **Proposal on splitting IEEE 802.21d into 802.21m and 802.21.1** |
| DCN | **21-15-00-0031-02-REVP** |
| Date Submitted | **July 16, 2015** |
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| Re: | Session #69, Waikoloa, Hawaii |
| Abstract | 21-14-067-09-REVP-802.21-2008\_include and 21-14-0093-00-REVP-802.21-2008\_exclude described how to split IEEE 802.21-2008 and 21a into 802.21m and 802.21.1. 21-15-038-00 proposed how to split IEEE 802.21c into 80802.21m and 802.21.1.  This document proposes how to split IEEE 802.21d-2015 into 802.21m and 802.21.1. |
| Purpose | To split IEEE 802.21d-2015 into 802.21m and 802.21.1 |
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| Clause | SubClause | Name | Go to 21m | Go to 21.1 | Comments |
| 2 |  | Normative references | Y |  | References on Handover are not included. |
| 3 |  | Definitions | Y |  | Definitions on Handover are not included. |
| 4 |  | Abbreviations and acronyms | Y |  | Abbreviations and acronyms related with Handover are not included. |
| 5 |  | General Architecture | Y |  |  |
|  | 5.1.12 | Group communication | Y |  |  |
| 6 |  | MIHF services |  |  |  |
|  | 6.2.1 | General | Y |  |  |
|  | 6.2.2 | Service management primitives | Y |  | Primitives related on Handover are not newly defined in 21d. |
|  | 6.2.7 | MIH group configuration and manipulation | Y |  |  |
|  | 6.4.1 | Command service flow model | Y |  |  |
| 7 |  |  |  |  |  |
|  | 7.2.3 | Media Independent SAP: MIH\_SAP | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 7.4.2 | MIH\_Register | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 7.4.4 | MIH\_Event\_Subscribe | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 7.4.5 | MIH\_Event\_Unsubscribe | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 7.4.14 | MIH\_Link\_Get\_Parameters | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 7.4.15 | MIH\_Link\_Configure\_Thresholds | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 7.4.16 | MIH\_Link\_Actions | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 7.4.21 | MIH\_Net\_HO\_Commit |  | Y | Included in 21-14-0093-00-REVP-802.21-2008\_exclude |
|  | 7.4.34 | MIH\_Configuration\_Update | Y |  |  |
|  | 7.4.35 | MIH\_MN\_Group\_Manipulate | Y |  | Security |
|  | 7.4.36 | MIH\_Net\_Group\_Manipulate | Y |  | Security |
|  | 7.4.37 | MIH\_Pull\_Certificate | Y |  | Security |
|  | 7.4.38 | MIH\_Push\_Certificate | Y |  | Security |
|  | 7.4.39 | MIH\_Revoke\_Certificate | Y |  | Security |
| 8 |  | Media independent handover protocol |  |  |  |
|  | 8.2.2 | MIH protocol acknowledgement service | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 8.2.3.4 | Inter-state-machine procedures | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 8.2.3.7.1 | Intra-state-machine variables | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 8.2.3.7.4 | Transaction destination state machine | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 8.2.4.3.4 | Solicited MIH capability discovery | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 8.3.1 | MIHF ID | Y | Y | MIH\_Net\_HO\_Candidate\_Query request, MIH\_N2N\_HO\_Query\_Resources request and MIH\_Net\_HO\_Commit request in b) MIH Messages for Command Service should be moved to 21.1. MIH\_Net\_HO\_Bcst\_Commit indication (21b) may be moved to 21.1. |
|  | 8.4.2 | Protected MIH protocol frame format | Y |  | Security |
|  | 8.6.1 | MIH messages for service management | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 8.6.3.1 | MIH\_Link\_Get\_Parameters request | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 8.6.3.3 | MIH\_Link\_Configure\_Thresholds request | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 8.6.3.5 | MIH\_Link\_Configure\_Thresholds indication | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 8.6.3.6 | MIH\_Link\_Actions request | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 8.6.3.8 | MIH\_Link\_Actions indication | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | 8.6.3.17 | MIH\_Net\_HO\_Commit request |  | Y | Included in 21-14-0093-00-REVP-802.21-2008\_exclude |
|  | 8.6.3.19 | MIH\_Net\_HO\_Commit indication |  | Y | Included in 21-14-0093-00-REVP-802.21-2008\_exclude |
| 9 |  | MIH protocol protection | Y |  | Security |
|  | 9.5 | Group manipulation for group addressed messages | Y |  | Security |
|  | 9.6 | Group addressed message protection | Y |  | Security |
| Annex A |  | Bibliography | Y |  | References on Handover are not included. |
| Annex F |  | Data type definition |  |  |  |
|  | Table F.4 | Data types for links | Y | Y | MULTICAST\_ACTION\_REQ is used in MIH\_Net\_HO\_Commit (21.1) and MIH\_Link\_Actions (21m). |
|  | Table F.19 | Data type for 1 MIH identification | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | Table F.24 | Data type for security | Y | Y | "RESPONSE\_FLAG" is used in MIH\_Net\_HO\_Commit (21.1) and other commands. |
|  | Table F.25 |  | Y |  |  |
| Annex L |  | MIH protocol message code assignments |  |  |  |
|  | Table L.1 | AID assignment | Y |  | Included in 21-14-067-09-REVP-802.21-2008\_include |
|  | Table L.2 | Type values for TLV encoding | Y | Y | "Group Link Actions List" is used in MIH\_Net\_HO\_Commit (21.1) and MIH\_Link\_Actions (21m). |
| Annex M |  | Protocol implementation conformance statement (PICS) proforma | Y |  |  |
|  | M.8.3 | Major capabilities | Y |  |  |
| Annex U |  | Examples of fragmented GKB operation | Y |  | Security |
| Annex V |  | Use of Bloom Filter for Certificate Revocation | Y |  | Security |