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| Project | **IEEE 802.21a**  **<https://mentor.ieee.org/802.21>** |
| Title | **Sequence Number** |
| DCN | 21-11-0044-00-0sec |
| Date Submitted |  |
| Source(s) | Fernando Bernal (UMU), Rafael Marin-Lopez (UMU) |
| Re: |  |
| Abstract | This document contents addtions in order to support a sequence number. |
| Purpose | Proposes changes in the current draft |
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| Ref. | 001 |
| DRAFT SECTION | 8.6.1.12 MIH\_Auth request |
| Page/line | 35/15 |
| Modification type | ADD |
| Text | SEQ  (Sequence-Number TLV) |

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| Ref. | 002 |
| DRAFT SECTION | 8.6.1.13 MIH\_Auth response |
| Page/line | 35/57 |
| Modification type | ADD |
| Text | SEQ  (Sequence-Number TLV) |

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| Ref. | 003 |
| DRAFT SECTION | Annex L |
| Page/line | 63/36 |
| Modification type | ADD |
| Text | TLV type name: Sequence-Number  TLV type value: 69  Data type: SEQ\_NUM |

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| Ref. | 004 |
| DRAFT SECTION | F.3.16 Data type for security |
| Page/line | 61/23 |
| Modification type | ADD |
| Text | |  |  |  | | --- | --- | --- | | Data type | Derived from | Definition | | SEQ\_NUM | UNSIGNED\_INT(32) | This specifies a sequence number .  Use rules:   * Initialized with a random value. * It is incremented by 1 (modulo 232-1) as new requests are generated. * Each time a new MIH request is generated a new sequence number is included. * MIH response messages always contain the same value as the corresponding MIH request. * If a retransmission is carried out, the same SEQ\_NUM is re-used and contained in the original packet. * A MIH request message will be valid if and only if the SEQ\_NUM matches with the expected value. * A MIH response message will be valid if and only if the SEQ\_NUM matches with the currently outstanding request. | |