

Adding Some Meaningful Status Codes

Aug. 31, 1995

Schaumburg IL

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Abstract:

The Status Code sub-clause, 4.3.1.9, has not been fleshed out with meaningful items. This paper suggests some of the obvious codes that are useful. In addition, this work made it obvious that the Status Code field, as defined, does not belong in the Disassociation and Deauthentication Frames. A solution to this problem is proposed. [**Bold comments in brackets are not part of the proposed text and are included for explanation only.**]

Body:

Add the following Status Codes to sub-clause 4.3.1.9, Status Code:

Status Code Meaning

- | | |
|-----|---|
| 10. | Can't support all requested capabilities in Capability Information field |
| 11. | STA requesting (Re)Association is not Authenticated with responding STA |
| 12. | Reassociation is denied because can't confirm that Association exists |
| 13. | Association denied due to not recognizing the requesting STA as valid |
| 14. | Open System Authentication is not acceptable to the responding STA |
| 15. | Responding STA does not support the specified Authentication Algorithm |
| 16. | Received an Authentication Frame with Authentication Transaction Sequence Number out of expected sequence |
| 17. | Authentication rejected because of challenge failure |

Status Code definition of sub-clause 4.3.1.9 says that the Status Code is an indication of the success or failure of an operation. In the Disassociation and the Deauthentication Frames there is no operation that has happened that can be reported upon; Disassociation and Deauthentication are in fact commands to someone to take an action, similar to the Association Request. It was suggested by an random body of Schaumburg attendees that a Reason Code should be created for use in the Disassociation and Deauthentication Frames. This paper makes no attempt to list meaningful Reason Codes.

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