**Comparison of RFC 4960 & RFC 9260**

Summary of the Test Case:

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| **S.No.** | **Test Case ID (ID NO)** | **Test Case Title** | **Linux - Result** | **FreeBSD - Result** | **Observation apart from the Expected Test Results** |
| 1 | T001 | INIT - Outbound and Inbound Streams | Passed | Passed |  |
| 2 | T002 | INIT - A\_rwnd & change of state of association | Passed | Passed |  |
| 3 | T003\_1 | INIT ACK - Initiate Tag - V1 (COOKIE-WAIT state) | Failed | Passed | Linux: T bit is not set |
| 4 | T003\_2 | INIT ACK - Initiate Tag - V2 (ESTABLISHED state) | Passed | Passed |  |
| 5 | T003\_3 | INIT ACK - Outbound & Inbound Stream | Passed | Passed |  |
| 6 | T004 | INIT ACK - A\_rwnd & change of state of association | Passed | Passed | Error in the RFC 9260: Errata is filed, and the right version is tested. |
| 7 | T005 | INIT Received in COOKIE-WAIT or COOKIE-ECHOD State | Passed | Passed without error cause | Error cause "RESTART\_WITH\_NEW\_ADDRESSES" was only received for Linux and not for FreeBSD, whereas it is optional to receive the error cause. |
| 8 | T006\_0 (ESTABLISHED State) | Unexpected INIT in States Other than CLOSED, COOKIE-ECHOED, COOKIE WAIT & SHUTDOWN-ACK-SENT | Passed | Passed |  |
| 9 | T006\_1 (SHUTDOWN-PENDING State) | Unexpected INIT in States Other than CLOSED, COOKIE-ECHOED, COOKIE WAIT & SHUTDOWN-ACK-SENT | Passed | Passed |  |
| 10 | T006\_2 (SHUTDOWN-SENT State) | Unexpected INIT in States Other than CLOSED, COOKIE-ECHOED, COOKIE WAIT & SHUTDOWN-ACK-SENT | Passed | Passed |  |
| 11 | T006\_3 (SHUTDOWN-RECEIVED State) | Unexpected INIT in States Other than CLOSED, COOKIE-ECHOED, COOKIE WAIT & SHUTDOWN-ACK-SENT | Passed | Passed |  |
| 12 | T007\_0 (ESTABLISHED State) | Unexpected INIT in States Other than CLOSED, COOKIE-ECHOED | Passed | Passed |  |
| 13 | T007\_1 (SHUTDOWN-PENDING State) | Unexpected INIT in States Other than CLOSED, COOKIE-ECHOED | Passed | Passed |  |
| 14 | T007\_2 (SHUTDOWN-SENT State) | Unexpected INIT in States Other than CLOSED, COOKIE-ECHOED | Passed | Passed |  |
| 15 | T007\_3 (SHUTDOWN-RECEIVED State) | Unexpected INIT in States Other than CLOSED, COOKIE-ECHOED | Passed | Passed |  |
| 16 | T008\_0 (COOKIE\_ECHOED STATE) | Unexpected INIT ACK | Passed | Passed |  |
| 17 | T008\_1 (ESTABLISHED STATE) | Unexpected INIT ACK | Passed | Passed |  |
| 18 | T008\_2 (SHUTDOWN-PENDING State) | Unexpected INIT ACK | Passed | Passed |  |
| 19 | T008\_3 (SHUTDOWN-SENT State) | Unexpected INIT ACK | Passed | Passed |  |
| 20 | T008\_4 (SHUTDOWN-RECEIVED State) | Unexpected INIT ACK | Passed | Passed |  |
| 21 | T008\_5 (SHUTDOWN-ACK-SENT State) | Unexpected INIT ACK | Passed | Passed |  |
| 22 | T011 | Verification Tag | Passed | Passed |  |
| 23 | T012\_0 (Bundling in  CLOSED State) | Bundling | Passed | Passed |  |
| 24 | T012\_1 (Bundling in  COOKIE\_ECHOED State) | Bundling | Passed | Passed |  |
| 25 | T012\_2 (Bundling in  ESTABLISHED State) | Bundling | Passed | Passed |  |
| 26 | T012\_3  (Bundling in  SHUTDOWN\_PENDING State) | Bundling | Passed | Passed |  |
| 27 | T012\_4  (Bundling in  SHUTDOWN\_SENT State) | Bundling | Passed | Passed |  |
| 28 | T012\_5 (Bundling in  SHUTDOWN\_RECEIVED State) | Bundling | Passed | Passed |  |
| 29 | T012\_6 (NON-ZERO Verification Tag in CLOSED state) | NON-ZERO Verification Tag | FAILED  Gives ABORT (bug in Linux) | Passed | Linux: When having a non-zero verification Tag it gives an ABORT. Bug in Linux. |
| 30 | T012\_7 (NON-ZERO Verification Tag in ESTABLISHED state) | NON-ZERO Verification Tag | FAILED  Gives ABORT (bug in Linux) | Passed | Linux: When having a non-zero verification Tag it gives an ABORT. Bug in Linux. |
| 31 | T013 | Non-SCTP-Capable Hosts | Passed  (\*delayed SACK) | Passed | In Linux: SACK was not bundled together with the ERROR chunk. SACK is delayed in Linux |
| 32 | T\_Addi\_5.1 (T047) | Normal Establishment of an Association | Passed | Passed | COOKIE-ACK is not received and the accept call does not return a new fd, therefore the COOKIE-ECHO failed the integrity test. |
| 33 | T014 | Payload Data - I bit | Passed | Passed |  |
| 34 | T015\_0 (CLOSED state) | INIT - Host name Parameter | Passed | Passed |  |
| 35 | T015\_1  (ESTABLISHED state) | INIT - Host name Parameter | Passed | Passed |  |
| 36 | T016 | INIT ACK - Host Name Parameter | Passed | Passed with T bit set | Version 13.1 fails the test, with the T-bit set, Bug in FreeBSD was reported and fixed. The bug will be fixed in the new version 13.2. |
| 37 | T017\_0  (CLOSED state) | Unrecognized Parameter - with value | Passed | Passed |  |
| 38 | T017\_1  (ESTABLISHED state) | Unrecognized Parameter - with value | Passed | Passed |  |
| 39 | T018 | Stream Parameters - OS identifier range | Passed | Passed |  |
| 40 | T022 | Reception of DATA chunk - with no user data | Passed | Passed |  |
| 41 | T024 | Stream Identifier | Passed | Passed |  |
| 42 | T044 | Heartbeat Acknowledgement | Passed | Passed |  |