

# **Q.933 bis – Section II**

Q.933 Annex A – Abstract Test Suite



# I

## Test Suite Overview

| <b>Test Suite Structure</b>   |                      |  |                |
|---|----------------------|--|----------------|
| <b>Suite Name</b> : Q933_Annex_A                                      |                      |  |                |
| <b>Standards Ref</b> : Q.933 Annex A                                  |                      |  |                |
| <b>PICS Ref</b> : Q.933 Annex D "PICS Proforma for Annex A" 1995      |                      |  |                |
| <b>PIXIT Ref</b> : Q.933 Annex A PIXIT Proforma                       |                      |  |                |
| <b>Test Method(s)</b> : Remote Single Layer, Distributed Single Layer |                      |  |                |
| <b>Comments</b> : Version 1.5: September 27, 1994                     |                      |  |                |
| <b>Test Group Reference</b>   | <b>Selection Ref</b> | <b>Test Group Objective</b>  | <b>Page Nr</b> |
| Periodic_Polling/   | Periodic_Polling     | Verify implementation of Q.933 Annex A periodic polling procedures (user sidesending STATUS ENQUIRY).  | 76             |
| Periodic_Polling/General/   |                      | Verify that IUT properly responds to valid behavior.   | 76             |
| Periodic_Polling/Error/   | Error_Conditions     | Verify that IUT properly respond to invalid behavior.  | 90             |
| Periodic_Polling/System/  |                      | Verify that IUT properly implements the system parameters.   | 110            |
| Bidirectional/  | Bidir                | Verify implementation of Q.933 Annex A bidirectional network procedures (network side sending STATUS). | 112            |
| Bidirectional/General/  |                      | Verify that IUT properly responds to valid behavior.   | 112            |
| Bidirectional/Error/  | Error_Conditions     | Verify that IUT properly responds to invalid behavior.   | 121            |
| Bidirectional/System/   |                      | Verify that IUT properly implements system parameters.   | 130            |
| <b>Detailed Comments</b> :  |                      |  |                |

| Test Case Index           |              |                      |  |         |
|---------------------------|--------------|----------------------|--|---------|
| Test Group Reference      | Test Case Id | Selection Ref        | Description  | Page Nr |
| Periodic_Polling/General/ | PS0_01V      |                      | Verify that the IUT initiates periodic polling by sending STATUS ENQUIRY after IUT initialization. Standard Ref.: A.4.1  | 76      |
| Periodic_Polling/General/ | PS1_02V      |                      | Verify that the IUT accepts a STATUS w/ full status report type when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.4.1  | 77      |
| Periodic_Polling/General/ | PS1_03V      | Report_New_PVC       | Verify that the IUT accepts a STATUS w/ full status report type containing PVC status IE identifying an unknown DLCI and the new bit set to 1 when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.4.3          | 77      |
| Periodic_Polling/General/ | PS1_04V      |                      | Verify that the IUT accepts a STATUS w/ full status report type, omitting the PVC status IE of a previously reported PVC, when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.4.1.5                            | 78      |
| Periodic_Polling/General/ | PS1_05V      | Report_Available_PVC | Verify that the IUT accepts a STATUS w/ full status report type reporting the availability of a PVC (active bit set to 1) for a previously inactive PVC when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.:A.4.4 | 78      |
| Periodic_Polling/General/ | PS1_06V      | Report_Available_PVC | Verify that the IUT accepts a STATUS w/ full status report type reporting the unavailability of a PVC (active bit set to 0) when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.4.4                            | 79      |

*Continued on next page*

Continued from previous page

| Test Case Index           |              |                  |   |         |
|---------------------------|--------------|------------------|---|---------|
| Test Group Reference      | Test Case Id | Selection Ref    | Description   | Page Nr |
| Periodic_Polling/General/ | PS1_07I      | Error_Conditions | Verify that the IUT ignores a STATUS w/ link integrity verification report type when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5.2   | 79      |
| Periodic_Polling/General/ | PS1_08V      | N391_Eq_1        | Verify that the IUT sends a STATUS ENQUIRY w/ full status report type after after a unanswered N391 th polling cycle when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.4.1                      | 80      |
| Periodic_Polling/General/ | PS1_09V      | N391_Not_1       | Verify that the IUT sends a STATUS ENQUIRY w/ full status report type after a unanswered polling cycle prior to the N391 st polling cycle when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.4.1 | 81      |
| Periodic_Polling/General/ | PS1_11V      | Asynch_Status    | Verify that the IUT continues periodic polling after receiving a STATUS w/ single PVC asynchronous status report type when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.1.1, A.4.1              | 81      |
| Periodic_Polling/General/ | PS2_02I      | Error_Conditions | Verify that the IUT ignores an unsolicited STATUS w/ full status report type when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5.2  | 82      |
| Periodic_Polling/General/ | PS2_07I      | Error_Conditions | Verify that the IUT ignores an unsolicited STATUS w/ link integrity verificationonly report type when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5.2  | 82      |

Continued on next page

Continued from previous page

| Test Case Index           |              |                    |  |         |
|---------------------------|--------------|--------------------|--|---------|
| Test Group Reference      | Test Case Id | Selection Ref      | Description  | Page Nr |
| Periodic_Polling/General/ | PS2_08V      |                    | Verify that the IUT sends a STATUS ENQUIRY w/ full status report type on the N391 th polling cycle when the IUT is in state S2. The final IUT state is expected to be S1. Standard Ref.: A.4.1   | 83      |
| Periodic_Polling/General/ | PS2_09V      |                    | Verify that the IUT sends a STATUS ENQUIRY w/ link integrity verification only report type after T391 expiration on a polling cycle prior to the N391 th polling cycle when the IUT is in state S2. The final IUT state is expected to be S3. Standard Ref.: A.4.1 | 84      |
| Periodic_Polling/General/ | PS2_11V      | Asynch_Status      | Verify that the IUT continues periodic polling after receiving a STATUS w/ single PVC asynchronous status report type when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.1.1, A.4.1   | 84      |
| Periodic_Polling/General/ | PS3_02V      | N391_Not_1         | Verify that the IUT accepts a STATUS w/ full status report type when the IUT is in state S3. The final IUT state is expected to be S2. Standard Ref.: A.4.1.4  | 85      |
| Periodic_Polling/General/ | PS3_03V      | New_PVC_N391_Not_1 | Verify that the IUT accepts a STATUS w/ full status report type containing PVC status IE identifying an unknown DLCI and the new bit set to 1 when the IUT is in state S3. The final IUT state is expected to be S2. Standard Ref.: A.4.3                          | 85      |
| Periodic_Polling/General/ | PS3_04V      | N391_Not_1         | Verify that the IUT accepts a STATUS w/ full status report, omitting the PVC status IE of a previously reported PVC, when the IUT is in state S3. The final IUT state is expected to be S2. Standard Ref.: A.4.1.5   | 86      |

Continued on next page

Continued from previous page

| Test Case Index           |              |                          |   |         |
|---------------------------|--------------|--------------------------|---|---------|
| Test Group Reference      | Test Case Id | Selection Ref            | Description   | Page Nr |
| Periodic_Polling/General/ | PS3_05V      | Avail_PVC_N391_Not_1     | Verify that the IUT accepts a STATUS w/ full status report type reporting the availability of a PVC (active bit set to 1) for a previously inactive PVC when the IUT is in state S3. The final IUT state is expected to be S2. Standard Ref.:A.4.4        | 86      |
| Periodic_Polling/General/ | PS3_06V      | Avail_PVC_N391_Not_1     | Verify that the IUT accepts a STATUS w/ full status report type reporting the unavailability of a PVC (active bit set to 0) when the IUT is in state S3. The final IUT state is expected to be S2. Standard Ref.: A.4.4                                   | 87      |
| Periodic_Polling/General/ | PS3_07V      | N391_Not_1               | Verify that the IUT accepts a STATUS w/ link integrity verification report type when the IUT is in state S3. The final IUT state is expected to be S2. Standard Ref.: A.4.1   | 87      |
| Periodic_Polling/General/ | PS3_08V      | N391_Not_1               | Verify that the IUT sends a STATUS ENQUIRY w/ full status report type after a unanswered N391 th polling cycle when the IUT is in state S3. The final IUT state is expected to be S1. Standard Ref.: A.4.1  | 88      |
| Periodic_Polling/General/ | PS3_09V      | N391_Not_1               | Verify that the IUT sends a STATUS ENQUIRY w/ link integrity verification only report type after an unanswered polling cycle prior to the N391 st polling cyclewhen the IUT is in state S3. The final IUT state is expected to be S3. StandardRef.: A.4.1 | 89      |
| Periodic_Polling/General/ | PS3_11V      | Asynch_Status_N391_Not_1 | Verify that the IUT continues periodic polling after receiving a STATUS w/ single PVC asynchronous status report type when the IUT is in state S3. The final IUT state is expected to be S3. Standard Ref.: A.1.1, A.4.1                                  | 89      |

Continued on next page

Continued from previous page

| Test Case Index         |              |               |  |         |
|-------------------------|--------------|---------------|--|---------|
| Test Group Reference    | Test Case Id | Selection Ref | Description  | Page Nr |
| Periodic_Polling/Error/ | PS1_10N      |               | Verify that the IUT ignores a STATUS w/ full status type of report containing an invalid receive sequence number when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5.2   | 90      |
| Periodic_Polling/Error/ | PS1_12N      |               | Verify that the IUT ignores a STATUS message w/ a protocol discrimination error when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5, A.2.1                               | 90      |
| Periodic_Polling/Error/ | PS1_13N      |               | Verify that the IUT ignores a STATUS message w/ a message too short (protocol discriminator and call reference only) when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5 | 91      |
| Periodic_Polling/Error/ | PS1_14N      |               | Verify that the IUT ignores a STATUS message w/ a call reference other than the dummy call reference when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5, A.2.2          | 91      |
| Periodic_Polling/Error/ | PS1_15N      |               | Verify that the IUT ignores an undefined message when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5   | 92      |
| Periodic_Polling/Error/ | PS1_16N      |               | Verify that the IUT ignores a STATUS message with an invalid type of report when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5  | 92      |
| Periodic_Polling/Error/ | PS1_17N      |               | Verify that the IUT ignores a STATUS message with a report type IE with an invalid content (length = 0) when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5              | 93      |

Continued on next page

*Continued from previous page*

| Test Case Index         |              |               |   |         |
|-------------------------|--------------|---------------|---|---------|
| Test Group Reference    | Test Case Id | Selection Ref | Description   | Page Nr |
| Periodic_Polling/Error/ | PS1_18N      |               | Verify that the IUT ignores a STATUS message with a full status report type and containing a mandatory IE content error (LIV IE length = 1 and missing its receive sequence number) when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5 | 93      |
| Periodic_Polling/Error/ | PS1_19N      |               | Verify that the IUT ignores a STATUS message with a full status report type and with a LIV IE with an invalid content (length error) when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5  | 94      |
| Periodic_Polling/Error/ | PS1_20N      |               | Verify that the IUT ignores a STATUS message with a mandatory IE missing (reporttype IE) when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5  | 94      |
| Periodic_Polling/Error/ | PS1_21N      |               | Verify that the IUT ignores a STATUS message with a mandatory IE missing (LIV IE) when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5   | 95      |
| Periodic_Polling/Error/ | PS1_22N      |               | Verify that the IUT ignores or accepts a STATUS w/ full status report type and report type IE out of sequence when the IUT is in state S1. The final IUT state is expected to be S1 or S2 respectively. Standard Ref.: A.5  | 95      |
| Periodic_Polling/Error/ | PS1_23N      |               | Verify that the IUT ignores a STATUS w/ full status report and PVC status IE out of sequence when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5  | 96      |

*Continued on next page*

Continued from previous page

| Test Case Index         |              |               |  |         |
|-------------------------|--------------|---------------|--|---------|
| Test Group Reference    | Test Case Id | Selection Ref | Description  | Page Nr |
| Periodic_Polling/Error/ | PS1_24N      |               | Verify that the IUT accepts a STATUS w/ full status report and an unrecognized IE when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5  | 96      |
| Periodic_Polling/Error/ | PS1_25N      |               | Verify that the IUT accepts a STATUS w/ full status report with a duplicated report type IE (the second report type is invalid) when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5                          | 97      |
| Periodic_Polling/Error/ | PS1_26N      |               | Verify that the IUT accepts a STATUS w/ full status report type with a duplicated LIV IE (the second LIV IE contains an invalid receive sequence number) when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5 | 97      |
| Periodic_Polling/Error/ | PS1_27N      | Asynch_Status | Verify that the IUT continues periodic polling after receiving a STATUS w/ single PVC asynchronous status report type containing two PVC status IE when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5       | 98      |
| Periodic_Polling/Error/ | PS1_28N      |               | Verify that the IUT accepts a STATUS w/ full status report type containing conflicting information in duplicated DLCI when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5                                    | 98      |
| Periodic_Polling/Error/ | PS1_29N      | Asynch_Status | Verify that the IUT continues periodic polling after receiving a STATUS w/ single PVC asynchronous report type and an unrecognized IE (LIV) when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5              | 99      |

Continued on next page

Continued from previous page

| Test Case Index         |              |               |   |         |
|-------------------------|--------------|---------------|---|---------|
| Test Group Reference    | Test Case Id | Selection Ref | Description   | Page Nr |
| Periodic_Polling/Error/ | PS1_30N      |               | Verify that the IUT ignores a STATUS message with full status report type and also a PVC status IE with an invalid content (reserved DLCI) when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5                    | 99      |
| Periodic_Polling/Error/ | PS1_31N      |               | Verify that the IUT accepts a STATUS message with a full status report type and also a PVC status IE with an invalid content (spare bits of octet 4 set to 1) when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5 | 100     |
| Periodic_Polling/Error/ | PS1_32N      |               | Verify that the IUT accepts a STATUS w/ full status report type containing PVC status IE identifying an unknown DLCI and the new bit set to 0 when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5                 | 100     |
| Periodic_Polling/Error/ | PS1_33N      |               | Verify that the IUT accepts a STATUS w/ full status report type containing PVC status IE identifying a DLCI in use and the new bit set to 1 when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5                   | 101     |
| Periodic_Polling/Error/ | PS1_34N      | Asynch_Status | Verify that the IUT ignores a STATUS w/ single PVC asynchronous type of report containing PVC status IE identifying an unknown DLCI and the new bit set to 0 when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5  | 101     |

Continued on next page

Continued from previous page

| Test Case Index         |              |               |   |         |
|-------------------------|--------------|---------------|---|---------|
| Test Group Reference    | Test Case Id | Selection Ref | Description   | Page Nr |
| Periodic_Polling/Error/ | PS1_38N      |               | Verify that the IUT accepts a STATUS w/ full status report type containing PVC status IE with first extension bit set to 1 (last octet) when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5               | 102     |
| Periodic_Polling/Error/ | PS1_39N      |               | Verify that the IUT accepts a STATUS w/ full status report type containing PVC status IE with third extension bit set to 0 (octet continues) when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5          | 102     |
| Periodic_Polling/Error/ | PS2_12N      |               | Verify that the IUT ignores an unsolicited STATUS message w/ a protocol discrimination error when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5  | 103     |
| Periodic_Polling/Error/ | PS2_15N      |               | Verify that the IUT ignores an unrecognized message when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5   | 103     |
| Periodic_Polling/Error/ | PS2_18N      |               | Verify that the IUT ignores an unsolicited STATUS message w/ a mandatory IE content error (LIV IE length = 1 and missing its receive sequence number) when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5 | 104     |
| Periodic_Polling/Error/ | PS2_20N      |               | Verify that the IUT ignores an unsolicited STATUS message w/ a missing mandatory IE (report type) when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5   | 104     |

Continued on next page

Continued from previous page

| Test Case Index         |              |               |  |         |
|-------------------------|--------------|---------------|--|---------|
| Test Group Reference    | Test Case Id | Selection Ref | Description  | Page Nr |
| Periodic_Polling/Error/ | PS2_24N      |               | Verify that the IUT ignores an unsolicited STATUS message w/ link integrity verification only report type and an unrecognized IE when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5                             | 105     |
| Periodic_Polling/Error/ | PS2_27N      | Asynch_Status | Verify that the IUT continues periodic polling after receiving a STATUS w/ single PVC asynchronous status report type containing two PVC status IE when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5           | 105     |
| Periodic_Polling/Error/ | PS2_29N      | Asynch_Status | Verify that the IUT continues periodic polling after receiving a STATUS w/ single PVC asynchronous report type and an unrecognized IE (LIV) when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5                  | 106     |
| Periodic_Polling/Error/ | PS2_34N      | Asynch_Status | Verify that the IUT ignores a STATUS w/ single PVC asynchronous type of report containing PVC status IE identifying an unknown DLCI and the new bit set to 0 when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5 | 106     |
| Periodic_Polling/Error/ | PS3_10N      | N391_Not_1    | Verify that the IUT ignores a STATUS w/ link integrity verification type of report and an invalid receive sequence number when the IUT is in state S3. The final IUT state is expected to be S3. Standard Ref.: A.5.2                                  | 107     |
| Periodic_Polling/Error/ | PS3_14N      | N391_Not_1    | Verify that the IUT ignores a STATUS message w/ a call reference other than the dummy call reference when the IUT is in state S3. The final IUT state is expected to be S3. Standard Ref.: A.5, A.5.2  | 107     |

Continued on next page

Continued from previous page

| Test Case Index          |              |                          |  |         |
|--------------------------|--------------|--------------------------|--|---------|
| Test Group Reference     | Test Case Id | Selection Ref            | Description  | Page Nr |
| Periodic_Polling/Error/  | PS3_18N      | N391_Not_1               | Verify that the IUT ignores a STATUS message with a link integrity verification report type and containing a mandatory IE content error (LIV IE length = 1 and no receive sequence number) when the IUT is in state S3. The final IUT state is expected to be S3. Standard Ref.: A.5 | 108     |
| Periodic_Polling/Error/  | PS3_21N      | N391_Not_1               | Verify that the IUT ignores a STATUS message with a mandatory IE missing (LIV IE) when the IUT is in state S3. The final IUT state is expected to be S3. Standard Ref.: A.5  | 108     |
| Periodic_Polling/Error/  | PS3_29N      | Asynch_Status_N391_Not_1 | Verify that the IUT continues periodic polling after receiving a STATUS w/ single PVC asynchronous report type and an unrecognized IE (LIV) when the IUT is in state S3. The final IUT state is expected to be S3. Standard Ref.: A.5  | 109     |
| Periodic_Polling/System/ | P_35V        |                          | Verify that the IUT's T391 between successive link integrity verifications is within its tolerance value. Standard Ref.: A.4.1   | 110     |
| Periodic_Polling/System/ | P_36V        |                          | Verify that the IUT increments the send sequence counter in the user-to-network direction modulo 256 but skips 0. Standard Ref.: A.4.2   | 111     |
| Periodic_Polling/System/ | P_37V        | SAC                      | Verify that the IUT continues link verification procedures to detect service restoration following the detection of a service affecting condition at the user-network interface. Standard Ref.: A.5.2  | 111     |
| Bidirectional/General/   | B_01V        |                          | Verify that the IUT responds to a STATUS ENQUIRY w/ link integrity verification only report type with a STATUS message. Standard Ref.: A.6   | 112     |

Continued on next page

Continued from previous page

| Test Case Index        |              |               |   |         |
|------------------------|--------------|---------------|---|---------|
| Test Group Reference   | Test Case Id | Selection Ref | Description   | Page Nr |
| Bidirectional/General/ | B_02V        |               | Verify that the IUT responds to a STATUS ENQUIRY w/ full status report type with a STATUS message w/ full status report. Standard Ref.: A.6   | 113     |
| Bidirectional/General/ | B_03V        |               | Verify that the IUT does not send an unsolicited STATUS message. Standard Ref.: A.6   | 113     |
| Bidirectional/General/ | B_17V        |               | Verify that the IUT does not clear the new bit in the PVC status IE until it receives a STATUS ENQUIRY message containing a receive sequence number equal to the send sequence counter (i.e. the send sequence number transmitted in the last STATUS message). Standard Ref.: A.4.3.2 | 114     |
| Bidirectional/General/ | B_18V        |               | Verify that, after a PVC is deleted from the IUT, the STATUS message sent by the IUT no longer contains the PVC status IE for that PVC. Standard Ref.: A.4.1.5  | 115     |
| Bidirectional/General/ | B_20V        |               | Verify that when a new PVC is configured, the IUT sets the new bit to 1 in the PVC status IE for that PVC in a full status STATUS message. Standard Ref.: A.4.3.1   | 116     |
| Bidirectional/General/ | B_21V        | Remote        | Verify that the IUT detects the non-receipt of the last N392 STATUS ENQUIRY messages and sets the active bit to 0 for the affected PVC's. Standard Ref.: A.4.4, A.5.1   | 117     |
| Bidirectional/General/ | B_22V        | Remote        | Verify that the IUT detects the receipt of the last N392 STATUS ENQUIRY messages with invalid receive sequence number and sets the active bit to 0 for the affected PVC's. Standard Ref.: A.4.4, A.5.1  | 118     |

Continued on next page

Continued from previous page

| Test Case Index        |              |               |   |         |
|------------------------|--------------|---------------|---|---------|
| Test Group Reference   | Test Case Id | Selection Ref | Description   | Page Nr |
| Bidirectional/General/ | B_23V        |               | Verify that the PVC status IE in the STATUS message sent by the IUT are in ascending order. Standard Ref.: A.1.1 Note 3   | 120     |
| Bidirectional/Error/   | B_04N        |               | Verify that the IUT responds to a STATUS ENQUIRY w/ link integrity verification only report type (LIV IE contains an invalid receive sequence number) with a STATUS message. Standard Ref.: A.6, A.5.1            | 121     |
| Bidirectional/Error/   | B_05N        |               | Verify that the IUT ignores a STATUS ENQUIRY w/ link integrity verification onlyreport type containing a protocol discrimination error. Standard Ref.: A.6  | 122     |
| Bidirectional/Error/   | B_06N        |               | Verify that the IUT ignores a STATUS ENQUIRY w/ link integrity verification onlyreport containing a call reference other than the dummy call reference. Standard Ref.: A.6, A.5                                   | 122     |
| Bidirectional/Error/   | B_07N        |               | Verify that the IUT ignores a message too short. Standard Ref.: A.6   | 123     |
| Bidirectional/Error/   | B_08N        |               | Verify that the IUT ignores an unrecognized message (invalid message type). The remainder of the message appears as valid STATUS ENQUIRY w/ link integrity verification only report type. Standard Ref.: A.6, A.5 | 123     |
| Bidirectional/Error/   | B_09N        |               | Verify that the IUT ignores a STATUS ENQUIRY message w/ full status report type containing an out of sequence IE (report type) or responds with a full STATUS message. Standard Ref.: A.6, A.5                    | 124     |

Continued on next page

*Continued from previous page*

| Test Case Index      |              |               |  |         |
|----------------------|--------------|---------------|--|---------|
| Test Group Reference | Test Case Id | Selection Ref | Description  | Page Nr |
| Bidirectional/Error/ | B_10N        |               | Verify that the IUT responds to a STATUS ENQUIRY w/ link integrity verification only report type containing a duplicate IE (LIV). The proper IUT response is a STATUS message. Standard Ref.: A.6, A.5               | 125     |
| Bidirectional/Error/ | B_11N        |               | Verify that the IUT responds to a STATUS ENQUIRY w/ full status report type containing a duplicate IE (report type). The proper IUT response is a STATUS message w/ full status report type. Standard Ref.: A.6, A.5 | 126     |
| Bidirectional/Error/ | B_12N        |               | Verify that the IUT responds to a STATUS ENQUIRY w/ full status report type containing an unrecognized IE. The proper IUT response is a STATUS message w/ full status report type. Standard Ref.: A.6, A.5           | 127     |
| Bidirectional/Error/ | B_13N        |               | Verify that the IUT ignores STATUS ENQUIRY containing a mandatory IE missing (report type). The remainder of the message appears as a link integrity verification only report type. Standard Ref.: A.6, A.5          | 128     |
| Bidirectional/Error/ | B_14N        |               | Verify that the IUT ignores STATUS ENQUIRY w/ full status report type containing a mandatory IE missing (link integrity verification). Standard Ref.: A.6, A.5   | 128     |
| Bidirectional/Error/ | B_15N        |               | Verify that the IUT ignores STATUS ENQUIRY containing a mandatory IE content error (report type). Standard Ref.: A.6, A.5  | 129     |

*Continued on next page*

Continued from previous page

| Test Case Index            |              |               |   |         |
|----------------------------|--------------|---------------|---|---------|
| Test Group Reference       | Test Case Id | Selection Ref | Description   | Page Nr |
| Bidirectional/Error/       | B_16N        |               | Verify that the IUT ignores STATUS ENQUIRY w/ full status report type containing a mandatory IE content error (link integrity verification IE with length = 1 and missing its receive sequence number). Standard Ref.: A.6, A.5 | 129     |
| Bidirectional/System/      | B_19V        |               | Verify that the IUT increments the send sequence counter in the network-to-user direction modulo 256 but skips 0. Standard Ref.: A.4.2  | 130     |
| <b>Detailed Comments :</b> |              |               |   |         |

| Test Step Index           |                       |   |         |
|---------------------------|-----------------------|---|---------|
| Test Step Group Reference | Test Step Id          | Description   | Page Nr |
| Preamble/                 | B0_PREAMBLE           | Procedure to bring the IUT in state S0 – TE ready to exchange Layer 3 messages, service affecting condition cleared, and IUT waiting for a STATUS ENQUIRY message | 131     |
| Preamble/                 | B0_PREAMBLE_RMT       |   | 131     |
| Preamble/                 | B1_PREAMBLE           | Procedure to bring the IUT in state S1 – TE waiting for STATUS ENQUIRY message w/ link integrity verification only report type                                    | 132     |
| Preamble/                 | PS0_PREAMBLE          | Procedure to bring the IUT in state S0 – TE ready to exchange Layer 3 messages and service affecting condition cleared  | 132     |
| Preamble/                 | PS1_PREAMBLE          | Procedure to bring IUT in state S1 – Wait for a STATUS ENQUIRY w/ full statusreport type  | 133     |
| Preamble/                 | PS20_PREAMBLE         | Procedure to bring IUT in state S20 – Wait for Timer T391 to time out and $N < N391$  | 133     |
| Preamble/                 | PS21_PREAMBLE         | Procedure to bring IUT in state S21 – Wait for Timer T391 to time out and $N = N391$  | 134     |
| Preamble/                 | PS30_PREAMBLE         | Procedure to bring IUT in state S3 – Wait for a STATUS ENQUIRY w/ link integrity verification only report type ( $N < N391$ )                                     | 134     |
| Preamble/                 | PS31_PREAMBLE         | Procedure to bring IUT in state S3 – Wait for a STATUS ENQUIRY w/ link integrity verification only report type and $N = N391$                                     | 135     |
| Verification/             | P_VERIFICATION        | Perform the periodic polling procedure once to insure that IUT's receive sequence number matches tester's send sequence number.                                   | 136     |
| Miscellaneous/            | B_RESPONSE            | Perform the response procedure  | 137     |
| Miscellaneous/            | B_RESPONSE_RMT        |   | 138     |
| Miscellaneous/            | B_T391TIMEOUT         | T391 timeout  | 139     |
| Miscellaneous/            | B_T391TIMEOUT_RMT     | T391 timeout – handle both the local and remote interfaces  | 139     |
| Miscellaneous/            | B_T391ToprTIMEOUT     |   | 140     |
| Miscellaneous/            | B_T391ToprTIMEOUT_RMT |   | 141     |
| Miscellaneous/            | B_UNEXPECTED          | Procedure to handle all acceptable unexpected messages  | 141     |
| Miscellaneous/            | B_UNEXPECTED_RMT      | Procedure to handle all acceptable unexpected messages on both the local and remote interfaces  | 142     |
| Miscellaneous/            | INCR_SN               | Increment sequence number modulo 256 (skip 0).  | 142     |
| Miscellaneous/            | P_POLLING             | Perform the periodic polling procedure  | 143     |
| Miscellaneous/            | P_SYNCH               | Perform the periodic polling procedure (on first poll, do not check content of IUT's receive sequence number)   | 144     |

Continued on next page

*Continued from previous page*

| <b>Test Step Index</b>           |                     |  |                |
|----------------------------------|---------------------|--|----------------|
| <b>Test Step Group Reference</b> | <b>Test Step Id</b> | <b>Description</b>   | <b>Page Nr</b> |
| Miscellaneous/                   | P_TIMEOUT           | Time out until the IUT sends a STATUS ENQUIRY message.                             | 145            |
| Miscellaneous/                   | P_UNEXPECTED        | Procedure to handle all acceptable unexpected messages                             | 145            |
| Miscellaneous/                   | SET_ONE_PVC         | Procedure to set up one and only one PVC in the PVC table                          | 146            |
| Miscellaneous/                   | SET_ONE_PVC_RMT     | Procedure to set up one and only one two-segment PVC (local and remote interfaces) | 147            |
| Postamble/                       | B_POSTAMBLE         | Postamble for the bidirectional network procedure                                  | 150            |
| Postamble/                       | B_POSTAMBLE_RMT     | Postamble for the bidirectional network procedure – local and remote interfaces    | 151            |
| Postamble/                       | P_POSTAMBLE         | Postamble for the polling procedure  | 152            |
| <b>Detailed Comments :</b>       |                     |  |                |

# **II**

## **Declarations Part**

| Simple Type Definitions    |                 |          |
|----------------------------|-----------------|----------|
| Type Name                  | Type Definition | Comments |
| BYTE                       | OCTETSTRING[1]  |          |
| <b>Detailed Comments :</b> |                 |          |

| ASN.1 Type Definition   |
|---|
| <b>Type Name</b> : ProtDiscType<br><b>Comments</b> : Protocol discriminator |
| <b>Type Definition</b>  |
| OCTET STRING(SIZE(1))   |
| <b>Detailed Comments :</b>  |

| ASN.1 Type Definition  |
|--|
| <b>Type Name</b> : CallRefValueType<br><b>Comments</b> : Octet 2 of the call reference |
| <b>Type Definition</b>   |
| SEQUENCE<br>{<br>crflag BIT STRING(SIZE(1)),<br>crvalue BIT STRING(SIZE(7))<br>}       |
| <b>Detailed Comments :</b>   |

| ASN.1 Type Definition  |
|--|
| <b>Type Name</b> : CallRefType<br><b>Comments</b> : Call reference                 |
| <b>Type Definition</b>   |
| SEQUENCE {<br>crlen OCTET STRING(SIZE(1)),<br>crval CallRefValueType OPTIONAL<br>} |
| <b>Detailed Comments :</b>   |

| ASN.1 Type Definition  |
|--|
| <b>Type Name</b> : MessageTypeType<br><b>Comments</b> : Message type |
| <b>Type Definition</b>   |
| OCTET STRING(SIZE(1))  |
| <b>Detailed Comments :</b>   |

| ASN.1 Type Definition   |
|---|
| <b>Type Name</b> : ReportType_IE  |
| <b>Comments</b> : Report type IE  |
| Type Definition   |
| <pre>SEQUENCE {   ieid OCTET STRING(SIZE(1)),   ielen OCTET STRING(SIZE(1)),   report_type_val OCTET STRING(SIZE(1)) OPTIONAL }</pre> |
| <b>Detailed Comments</b> :  |

| ASN.1 Type Definition  |
|--|
| <b>Type Name</b> : LinkIntegrityVerification_IE  |
| <b>Comments</b> : Link integrity verification IE   |
| Type Definition  |
| <pre>SEQUENCE {   ieid OCTET STRING(SIZE(1)),   ielen OCTET STRING(SIZE(1)),   send_seq OCTET STRING(SIZE(1)) OPTIONAL,   rcv_seq OCTET STRING(SIZE(1)) OPTIONAL }</pre> |
| <b>Detailed Comments</b> :   |

| ASN.1 Type Definition  |
|--|
| <b>Type Name</b> : PVCStatus_IE  |
| <b>Comments</b> : Permanent virtual connection status IE   |
| Type Definition  |
| <pre>SEQUENCE {   ieid OCTET STRING(SIZE(1)),   ielen OCTET STRING(SIZE(1)),   ext1 BIT STRING(SIZE(1)),   spare1 BIT STRING(SIZE(1)),   dlc1hi BIT STRING(SIZE(6)),   ext2 BIT STRING(SIZE(1)),   dlc1lo BIT STRING(SIZE(4)),   spare2 BIT STRING(SIZE(3)),   ext3 BIT STRING(SIZE(1)),   spare3 BIT STRING(SIZE(3)),   new BIT STRING(SIZE(1)),   spare4 BIT STRING(SIZE(1)),   active BIT STRING(SIZE(1)),   spare5 BIT STRING(SIZE(1)) }</pre> |
| <b>Detailed Comments</b> :   |

| <b>ASN.1 Type Definition</b> |                  |
|------------------------------|------------------|
| <b>Type Name</b> :           | PVCStatus_IEList |
| <b>Comments</b> :            |                  |
| <b>Type Definition</b>       |                  |
| SEQUENCE OF PVCStatus_IE     |                  |
| <b>Detailed Comments</b> :   |                  |

| <b>Test Suite Operation Definition</b>                                   |                                   |
|--|-----------------------------------|
| <b>Operation Name</b>  | : DLCI_VALUE(pvc_st:PVCStatus_IE) |
| <b>Result Type</b>   | : BITSTRING                       |
| <b>Comments</b>  | :                                 |
| Description  |                                   |
| Returns the 10 bit DLCI value extracted from the "pvc_st" PVC status IE. |                                   |
| <b>Detailed Comments</b>   | :                                 |

| <b>Test Suite Operation Definition</b>   |                          |
|--|--------------------------|
| <b>Operation Name</b>  | : DLCI_HI(STR:BITSTRING) |
| <b>Result Type</b>   | : BITSTRING              |
| <b>Comments</b>  | :                        |
| Description  |                          |
| Returns the most significant 6 bits of STR. Ex.: DLCI_HI('1111110000'B) = '111111'B. |                          |
| <b>Detailed Comments</b>   | :                        |

| <b>Test Suite Operation Definition</b>  |                          |
|---|--------------------------|
| <b>Operation Name</b>   | : DLCI_LO(STR:BITSTRING) |
| <b>Result Type</b>  | : BITSTRING              |
| <b>Comments</b>   | :                        |
| Description   |                          |
| Returns the 4 least significant bits of STR. Ex.: DLCI_LO('0000001111'B) = '1111'B. |                          |
| <b>Detailed Comments</b>  | :                        |

| <b>Test Suite Operation Definition</b>  |                                       |
|---|---------------------------------------|
| <b>Operation Name</b>   | : INT_TO_OCT(intvalue,length:INTEGER) |
| <b>Result Type</b>  | : OCTETSTRING                         |
| <b>Comments</b>   | :                                     |
| Description   |                                       |
| Convert a single INTEGER value to a single OCTETSTRING value. The resulting string is "length" OCTET long. Ex.: INT_TO_OCT(132, 2) = '0084'O. |                                       |
| <b>Detailed Comments</b>  | :                                     |

| <b>Test Suite Operation Definition</b>   |                                  |
|--|----------------------------------|
| <b>Operation Name</b> :  | OCT_TO_INT(octvalue:OCTETSTRING) |
| <b>Result Type</b> :   | INTEGER                          |
| <b>Comments</b> :  |                                  |
| <b>Description</b>   |                                  |
| Convert a single OCTETSTRING value to a single INTEGER value. Ex.:<br>OCT_TO_INT('FF'O) = 255. |                                  |
| <b>Detailed Comments</b> :   |                                  |

| Test Suite Parameter Declarations |           |                |  |
|-----------------------------------|-----------|----------------|--|
| Parameter Name                    | Type      | PICS/PIXIT Ref | Comments   |
| DELTA                             | INTEGER   | PIXIT SP.P.5   | IUT's T391 tolerance value   |
| T391value                         | INTEGER   | PIXIT SP.P.4   | IUT's T391 duration in milliseconds  |
| T392value                         | INTEGER   | PIXIT SP.P.6   | IUT's T392 duration in milliseconds  |
| Toprvalue                         | INTEGER   | PIXIT SP.B.6   | Timer operator duration in seconds   |
| N391                              | INTEGER   | PIXIT SP.P.1   | Full status polling counter (user side)  |
| N391B                             | INTEGER   | PIXIT SP.B.1   | Full status polling counter (network side)   |
| N392B                             | INTEGER   | PIXIT SP.B.2   | Error threshold  |
| N393                              | INTEGER   | PIXIT SP.P.3   | Monitored events count (user side)   |
| N393B                             | INTEGER   | PIXIT SP.B.3   | Monitored events count (network side)  |
| Polling                           | BOOLEAN   | PICS AD.2.1.1  | Periodic Polling – IUT responds to a STATUS ENQUIRY with a STATUS message  |
| New_PVC                           | BOOLEAN   | PICS AD.2.1.3  | IUT reports new PVCs via the PVC Status New Bit  |
| Avail_PVC                         | BOOLEAN   | PICS AD.2.1.4  | IUT reports the availability of PVCs via the PVC Status Active bit   |
| Asynch                            | BOOLEAN   | PICS AD.2.2.7  | IUT accepts PVC availability information via STATUS/Report Type = single PVC asynchronous status   |
| Error                             | BOOLEAN   | PICS AD.2.2.6  | Does the IUT support user equipment operations error procedure?  |
| Bidir_Procs                       | BOOLEAN   | PICS C.1, C.2  | Does the IUT support bidirectional network procedures?   |
| IE_Out_Of_Seq                     | BOOLEAN   | PIXIT          | Can the IUT process messages with out of order IEs?  |
| Polling_On_SAC                    | BOOLEAN   | PIXIT          | Does the IUT continue link verification procedures to detect service restoration following the detection of a service affecting condition at the user-network interface? |
| Remote_Interface                  | BOOLEAN   | PIXIT          | Can the IUT establish a PVC between a remote interface and its local interface.  |
| first_dlci                        | BITSTRING | PIXIT D.1      | 10 bits DLCI on which the UNI procedure for the deletion of a PVC will take place  |

*Continued on next page*

*Continued from previous page*

| <b>Test Suite Parameter Declarations</b> |             |                       |  |
|--|-------------|-----------------------|--|
| <b>Parameter Name</b>                    | <b>Type</b> | <b>PICS/PIXIT Ref</b> | <b>Comments</b>  |
| second_dlci                              | BITSTRING   | PIXIT D.2             | 10 bits DLCI on which UNI the procedure for reporting the availability/unavailability of a PVC will take place |
| third_dlci                               | BITSTRING   | PIXIT D.3             | 10 bits DLCI on which the UNI procedure for the reporting of a new PVC will take place                         |
| <b>Detailed Comments :</b>               |             |                       |  |

| <b>Test Case Selection Expression Definitions</b> |                             |                 |
|---|-----------------------------|-----------------|
| <b>Expression Name</b>                            | <b>Selection Expression</b> | <b>Comments</b> |
| N391_Eq_1   | N391 = 1                    |                 |
| N391_Not_1  | NOT(N391 = 1)               |                 |
| Periodic_Polling                                  | Polling                     |                 |
| Report_New_PVC                                    | New_PVC                     |                 |
| New_PVC_N391_Not_1                                | New_PVC AND NOT(N391 = 1)   |                 |
| Report_Available_PVC                              | Avail_PVC                   |                 |
| Avail_PVC_N391_Not_1                              | Avail_PVC AND NOT(N391 = 1) |                 |
| Asynch_Status                                     | Asynch                      |                 |
| Asynch_Status_N391_Not_1                          | Asynch AND NOT(N391 = 1)    |                 |
| SAC   | Polling_On_SAC              |                 |
| Error_Conditions                                  | Error                       |                 |
| Bidir   | Bidir_Procs                 |                 |
| Remote  | Remote_Interface            |                 |
| <b>Detailed Comments :</b>                        |                             |                 |

| Test Suite Constant Declarations |             |              |  |
|----------------------------------|-------------|--------------|--|
| Constant Name                    | Type        | Value        | Comments   |
| reserved_dlci                    | BITSTRING   | '000000001'B | 10 bits value representing reserved DLCI 1   |
| q931                             | OCTETSTRING | '08'O        | Q.931 protocol discriminator   |
| invalid_pd                       | OCTETSTRING | '0A'O        |  |
| dummy                            | OCTETSTRING | '00'O        | Dummy call reference content   |
| basic                            | OCTETSTRING | '01'O        | Content of a call reference of length 1  |
| from_originator                  | BITSTRING   | '1'B         | Flag   |
| to_originator                    | BITSTRING   | '0'B         | Flag   |
| status                           | OCTETSTRING | '7D'O        | STATUS message type  |
| status_enq                       | OCTETSTRING | '75'O        | STATUS ENQUIRY message type  |
| undefined_message_type           | OCTETSTRING | '7F'O        |  |
| report_type                      | OCTETSTRING | '51'O        | Report type IE identifier  |
| undefined_report_type            | OCTETSTRING | '63'O        |  |
| full_status                      | OCTETSTRING | '00'O        | Full status report type  |
| link_integrity                   | OCTETSTRING | '01'O        | Link integrity verification report type  |
| single_pvc_asynch                | OCTETSTRING | '02'O        | Single PVC asynchronous report type  |
| unrecognized_ie_id               | OCTETSTRING | '02'O        |  |
| link_integ_verif                 | OCTETSTRING | '53'O        | Link integrity verification IE identifier  |
| pvc_status                       | OCTETSTRING | '57'O        | PVC status IE identifier   |
| new                              | BITSTRING   | '1'B         | PVC is new (PVC status IE, octet 4, new bit)   |
| already_present                  | BITSTRING   | '0'B         | PVC is already present (PVC status IE, octet 4, new bit)                             |
| active                           | BITSTRING   | '1'B         | PVC is active (PVC status IE, octet 4, active bit)                                   |
| inactive                         | BITSTRING   | '0'B         | PVC is inactive (PVC status IE, octet 4, active bit)                                 |
| continues                        | BITSTRING   | '0'B         | Extension bit value indicating that the octet group continues through the next octet |
| last_octet                       | BITSTRING   | '1'B         | Extension bit value indicating that this octet is the last octet of the octet group  |
| <b>Detailed Comments :</b>       |             |              |  |

| <b>Test Suite Variable Declarations</b> |             |              |   |
|---|-------------|--------------|---|
| <b>Variable Name</b>                    | <b>Type</b> | <b>Value</b> | <b>Comments</b>   |
| SSN                                     | BYTE        |              | Send sequence number                                    |
| RSN                                     | BYTE        |              | Receive sequence number                                 |
| SSN_RMT                                 | BYTE        |              | Send sequence number for the remote interface           |
| RSN_RMT                                 | BYTE        |              | Receive sequence number for the remote interface        |
| N                                       | INTEGER     |              | Number of polling cycles since last full status enquiry |
| Event                                   | INTEGER     |              | Monitored events count                                  |
| <b>Detailed Comments :</b>              |             |              |   |

| <b>Test Case Variable Declarations</b> |             |               |  |
|--|-------------|---------------|--|
| <b>Variable Name</b>                   | <b>Type</b> | <b>Value</b>  | <b>Comments</b>                        |
| INVAL_SSN                              | BYTE        |               | Invalid send sequence number           |
| D                                      | BITSTRING   | '0000000000'B | 10 bit DLCI value                      |
| DRMT                                   | BITSTRING   | '0000000000'B | 10 bit DLCI value for remote interface |
| <b>Detailed Comments :</b>             |             |               |  |

| <b>PCO Declarations</b>    |                 |             |                             |
|----------------------------|-----------------|-------------|-----------------------------|
| <b>PCO Name</b>            | <b>PCO Type</b> | <b>Role</b> | <b>Comments</b>             |
| L                          | L3_SAP          | LT          | PCO on the local interface  |
| LRMT                       | L3_SAP          | LT          | PCO on the remote interface |
| M                          | Mgmt_SAP        | UT          | PCO for PVC Management      |
| <b>Detailed Comments :</b> |                 |             |                             |

| <b>Timer Declarations</b>  |                 |             |   |
|----------------------------|-----------------|-------------|---|
| <b>Timer Name</b>          | <b>Duration</b> | <b>Unit</b> | <b>Comments</b>   |
| T391                       | T391value       | ms          | LIV polling timer; started on transmission of a Status Enquiry  |
| T392                       | T392value       | ms          | Polling verification timer; started on transmission of a STATUS, stopped on reception of a STATUS ENQUIRY |
| T                          |                 | ms          | Generic timer   |
| Topr                       | Toprvalue       | ms          | Timer operator  |
| <b>Detailed Comments :</b> |                 |             |   |

| <b>ASN.1 ASP Type Definition</b>    |  |
|-------------------------------------|--|
| <b>ASP Name</b> : Mgmt              |  |
| <b>PCO Type</b> : Mgmt_SAP          |  |
| <b>Comments</b> : Management ASP    |  |
| <b>Type Definition</b>              |  |
| SEQUENCE {<br>msg OCTET STRING<br>} |  |
| <b>Detailed Comments</b> :          |  |

| <b>ASN.1 PDU Type Definition</b>  |
|---|
| <b>PDU Name</b> : Status<br><b>PCO Type</b> : L3_SAP<br><b>Comments</b> : STATUS message  |
| <b>Type Definition</b>  |
| <pre> SEQUENCE {   protocol_discriminator ProtDiscType,   call_reference CallRefType,   message_type MessageTypeType OPTIONAL,   report_type ReportType_IE OPTIONAL,   link_integrity_verification LinkIntegrityVerification_IE OPTIONAL,   pvc_status PVCStatus_IEList OPTIONAL } </pre> |
| <b>Detailed Comments</b> :  |

| <b>ASN.1 PDU Type Definition</b>   |
|--|
| <b>PDU Name</b> : Status_LIVrep<br><b>PCO Type</b> : L3_SAP<br><b>Comments</b> : STATUS message w/ duplicated link integrity verification IE   |
| <b>Type Definition</b>   |
| <pre> SEQUENCE {   protocol_discriminator ProtDiscType,   call_reference CallRefType,   message_type MessageTypeType,   report_type ReportType_IE,   link_integrity_verification1 LinkIntegrityVerification_IE,   link_integrity_verification2 LinkIntegrityVerification_IE,   pvc_status PVCStatus_IEList OPTIONAL } </pre> |
| <b>Detailed Comments</b> :   |

| <b>ASN.1 PDU Type Definition</b>   |
|--|
| <b>PDU Name</b> : Status_RToos<br><b>PCO Type</b> : L3_SAP<br><b>Comments</b> : STATUS message with report type IE out of sequence   |
| <b>Type Definition</b>   |
| <pre> SEQUENCE {   protocol_discriminator ProtDiscType,   call_reference CallRefType,   message_type MessageTypeType,   link_integrity_verification LinkIntegrityVerification_IE,   report_type ReportType_IE,   pvc_status PVCStatus_IEList OPTIONAL } </pre> |
| <b>Detailed Comments</b> :   |

| <b>ASN.1 PDU Type Definition</b>  |
|---|
| <b>PDU Name</b> : Status_RTrep<br><b>PCO Type</b> : L3_SAP<br><b>Comments</b> : STATUS message with duplicated report type IE   |
| <b>Type Definition</b>  |
| <pre>SEQUENCE {   protocol_discriminator ProtDiscType,   call_reference CallRefType,   message_type MessageTypeType,   report_type1 ReportType_IE,   report_type2 ReportType_IE,   link_integrity_verification LinkIntegrityVerification_IE,   pvc_status PVCStatus_IEList OPTIONAL }</pre> |
| <b>Detailed Comments</b> :  |

| <b>ASN.1 PDU Type Definition</b>  |
|---|
| <b>PDU Name</b> : Status_Enquiry<br><b>PCO Type</b> : L3_SAP<br><b>Comments</b> : STATUS ENQUIRY message  |
| <b>Type Definition</b>  |
| <pre>SEQUENCE {   protocol_discriminator ProtDiscType,   call_reference CallRefType,   message_type MessageTypeType OPTIONAL,   report_type ReportType_IE OPTIONAL,   link_integrity_verification LinkIntegrityVerification_IE OPTIONAL }</pre> |
| <b>Detailed Comments</b> :  |

| <b>ASN.1 PDU Type Definition</b>   |
|--|
| <b>PDU Name</b> : Status_Enquiry_LIVrep<br><b>PCO Type</b> : L3_SAP<br><b>Comments</b> : STATUS ENQUIRY message  |
| <b>Type Definition</b>   |
| <pre>SEQUENCE {   protocol_discriminator ProtDiscType,   call_reference CallRefType,   message_type MessageTypeType,   report_type ReportType_IE,   link_integrity_verification1 LinkIntegrityVerification_IE,   link_integrity_verification2 LinkIntegrityVerification_IE }</pre> |
| <b>Detailed Comments</b> :   |

| <b>ASN.1 PDU Type Definition</b>   |
|--|
| <b>PDU Name</b> : Status_Enquiry_RToos<br><b>PCO Type</b> : L3_SAP<br><b>Comments</b> : STATUS ENQUIRY message w/ report type out of sequence  |
| <b>Type Definition</b>   |
| <pre>SEQUENCE {   protocol_discriminator ProtDiscType,   call_reference CallRefType,   message_type MessageTypeType,   link_integrity_verification LinkIntegrityVerification_IE,   report_type ReportType_IE }</pre> |
| <b>Detailed Comments</b> :   |

| <b>ASN.1 PDU Type Definition</b>  |
|---|
| <b>PDU Name</b> : Status_Enquiry_RTrep<br><b>PCO Type</b> : L3_SAP<br><b>Comments</b> : STATUS ENQUIRY message w/ duplicated report type  |
| <b>Type Definition</b>  |
| <pre>SEQUENCE {   protocol_discriminator ProtDiscType,   call_reference CallRefType,   message_type MessageTypeType,   report_type1 ReportType_IE,   report_type2 ReportType_IE,   link_integrity_verification LinkIntegrityVerification_IE }</pre> |
| <b>Detailed Comments</b> :  |

# **III**

## **Constraints Part**

| ASN.1 Type Constraint Declaration |                        |
|-----------------------------------|------------------------|
| <b>Constraint Name</b>            | : dummy_cr             |
| <b>ASN1 Type</b>                  | : CallRefType          |
| <b>Derivation Path</b>            | :                      |
| <b>Comments</b>                   | : Dummy call reference |
| Constraint Value                  |                        |
| <pre>{   crlen dummy }</pre>      |                        |
| <b>Detailed Comments</b> :        |                        |

| ASN.1 Type Constraint Declaration  |                         |
|--|-------------------------|
| <b>Constraint Name</b>   | : global_cr             |
| <b>ASN1 Type</b>   | : CallRefType           |
| <b>Derivation Path</b>   | :                       |
| <b>Comments</b>  | : Global call reference |
| Constraint Value   |                         |
| <pre>{   crlen basic,   crval {     crflag from_originator,     crvalue '0000000'B   } }</pre> |                         |
| <b>Detailed Comments</b> :   |                         |

| ASN.1 Type Constraint Declaration   |   |
|---|---|
| <b>Constraint Name</b>  | : rep_type(REPORT_TYPE:OCTETSTRING)                                     |
| <b>ASN1 Type</b>  | : ReportType_IE   |
| <b>Derivation Path</b>  | :   |
| <b>Comments</b>   | : Report type IE with type of report as specified in the parameter list |
| Constraint Value  |   |
| <pre>{   ieid report_type,   ielen '01'O,   report_type_val REPORT_TYPE }</pre> |   |
| <b>Detailed Comments</b> :  |   |

| <b>ASN.1 Type Constraint Declaration</b>         |   |
|--|---|
| <b>Constraint Name</b>                           | : empty_report_type                     |
| <b>ASN1 Type</b>                                 | : ReportType_IE                         |
| <b>Derivation Path</b>                           | :                                       |
| <b>Comments</b>                                  | : Empty report type IE (IE length is 0) |
| <b>Constraint Value</b>                          |   |
| <pre>{   ieid report_type,   ielen '00'O }</pre> |   |
| <b>Detailed Comments</b> :                       |   |

| <b>ASN.1 Type Constraint Declaration</b>   |  |
|--|--|
| <b>Constraint Name</b>   | : liv(SS,RS:OCTETSTRING)   |
| <b>ASN1 Type</b>   | : LinkIntegrityVerification_IE   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Link integrity verification IE with SSN and RSN as specified in the parameter list |
| <b>Constraint Value</b>  |  |
| <pre>{   ieid link_integ_verif,   ielen '02'O,   send_seq SS,   rcv_seq RS }</pre> |  |
| <b>Detailed Comments</b> :   |  |

| <b>ASN.1 Type Constraint Declaration</b>                             |  |
|--|--|
| <b>Constraint Name</b>   | : liv_miss_rsn(SS:OCTETSTRING)                                       |
| <b>ASN1 Type</b>   | : LinkIntegrityVerification_IE                                       |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Link integrity verification IE missing its receive sequence number |
| <b>Constraint Value</b>  |  |
| <pre>{   ieid link_integ_verif,   ielen '01'O,   send_seq SS }</pre> |  |
| <b>Detailed Comments</b> :   |  |

| <b>ASN.1 Type Constraint Declaration</b>   |  |
|--|--|
| <b>Constraint Name</b>   | : liv_inval_len(SS,RS:OCTETSTRING)                         |
| <b>ASN1 Type</b>   | : LinkIntegrityVerification_IE                             |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Link integrity verification IE with an invalid IE length |
| <b>Constraint Value</b>  |  |
| <pre>{   ieid link_integ_verif,   ielen '03'O,   send_seq SS,   rcv_seq RS }</pre> |  |
| <b>Detailed Comments</b> :   |  |

| <b>ASN.1 Type Constraint Declaration</b>   |                                |
|--|--------------------------------|
| <b>Constraint Name</b>   | : unrec_ie(SS,RS:OCTETSTRING)  |
| <b>ASN1 Type</b>   | : LinkIntegrityVerification_IE |
| <b>Derivation Path</b>   | :                              |
| <b>Comments</b>  | : Unrecognized IE              |
| <b>Constraint Value</b>  |                                |
| <pre>{   ieid unrecognized_ie_id,   ielen '02'O,   send_seq SS,   rcv_seq RS }</pre> |                                |
| <b>Detailed Comments</b> :   |                                |

| <b>ASN.1 Type Constraint Declaration</b>  |   |
|---|---|
| <b>Constraint Name</b>  | : pvc_stat(DLCI,NEW,ACTIVE:BITSTRING)   |
| <b>ASN1 Type</b>  | : PVCStatus_IE  |
| <b>Derivation Path</b>  | :   |
| <b>Comments</b>   | : PVC status IE with DLCI, new and active bits as specified in the parameter list |
| <b>Constraint Value</b>   |   |
| <pre> {   ieid pvc_status,   ielen '03'O,   ext1 continues,   spare1 '0'B,   dlcihi DLCI_HI(DLCI),   ext2 last_octet,   dlciilo DLCI_LO(DLCI),   spare2 '000'B,   ext3 last_octet,   spare3 '000'B,   new NEW,   spare4 '0'B,   active ACTIVE,   spare5 '0'B } </pre> |   |
| <b>Detailed Comments</b>  | :   |

| <b>ASN.1 Type Constraint Declaration</b>  |   |
|---|---|
| <b>Constraint Name</b>  | : pvc_stat_any_dlci(NEW,ACTIVE:BITSTRING)   |
| <b>ASN1 Type</b>  | : PVCStatus_IE  |
| <b>Derivation Path</b>  | :   |
| <b>Comments</b>   | : PVC status IE with DLCI, new and active bits as specified in the parameter list |
| <b>Constraint Value</b>   |   |
| <pre> {   ieid pvc_status,   ielen '03'O,   ext1 continues,   spare1 '0'B,   dlcihi ?,   ext2 last_octet,   dlciilo ?,   spare2 '000'B,   ext3 last_octet,   spare3 '000'B,   new NEW,   spare4 '0'B,   active ACTIVE,   spare5 '0'B } </pre> |   |
| <b>Detailed Comments</b>  | :   |

| <b>ASN.1 Type Constraint Declaration</b>   |   |
|--|---|
| <b>Constraint Name</b>   | : pvc_stat_spare(DLCI,NEW,ACTIVE:BITSTRING)         |
| <b>ASN1 Type</b>   | : PVCStatus_IE                                      |
| <b>Derivation Path</b>   | :   |
| <b>Comments</b>  | : PVC status IE with spare bits of octet 4 set to 1 |
| <b>Constraint Value</b>  |   |
| <pre> {   ieid pvc_status,   ielen '03'O,   ext1 continues,   spare1 '0'B,   dlcihi DLCI_HI(DLCI),   ext2 last_octet,   dlcilo DLCI_LO(DLCI),   spare2 '000'B,   ext3 last_octet,   spare3 '111'B,   new NEW,   spare4 '1'B,   active ACTIVE,   spare5 '1'B } </pre> |   |
| <b>Detailed Comments</b>   | :   |

| <b>ASN.1 Type Constraint Declaration</b>  |   |
|---|---|
| <b>Constraint Name</b>  | : pvc_stat_ext_1(DLCI,NEW,ACTIVE:BITSTRING)       |
| <b>ASN1 Type</b>  | : PVCStatus_IE                                    |
| <b>Derivation Path</b>  | :   |
| <b>Comments</b>   | : PVC status IE with first extension bit set to 1 |
| <b>Constraint Value</b>   |   |
| <pre> {   ieid pvc_status,   ielen '03'O,   ext1 last_octet,   spare1 '0'B,   dlcihi DLCI_HI(DLCI),   ext2 last_octet,   dlcilo DLCI_LO(DLCI),   spare2 '000'B,   ext3 last_octet,   spare3 '000'B,   new NEW,   spare4 '0'B,   active ACTIVE,   spare5 '0'B } </pre> |   |
| <b>Detailed Comments</b>  | :   |

| ASN.1 Type Constraint Declaration   |   |
|---|---|
| <b>Constraint Name</b>  | : pvc_stat_ext_3(DLCI,NEW,ACTIVE:BITSTRING)       |
| <b>ASN1 Type</b>  | : PVCStatus_IE                                    |
| <b>Derivation Path</b>  | :   |
| <b>Comments</b>   | : PVC status IE with third extension bit set to 0 |
| Constraint Value  |   |
| <pre>{   ieid pvc_status,   ielen '03'O,   ext1 continues,   spare1 '0'B,   dlcihi DLCI_HI(DLCI),   ext2 last_octet,   dlcihi DLCI_HI(DLCI),   dlcihi DLCI_HI(DLCI),   spare2 '000'B,   ext3 continues,   spare3 '000'B,   new NEW,   spare4 '0'B,   active ACTIVE,   spare5 '0'B }</pre> |   |
| <b>Detailed Comments</b>  | :   |

| <b>ASN.1 ASP Constraint Declaration</b> |   |
|---|---|
| <b>Constraint Name</b>                  | : PVC_ADD                                       |
| <b>ASP Type</b>                         | : Mgmt  |
| <b>Derivation Path</b>                  | :   |
| <b>Comments</b>                         | : Primitive used to notify IUT to add a new PVC |
| <b>Constraint Value</b>                 |   |
| <pre>{   msg '00'O }</pre>              |   |
| <b>Detailed Comments</b> :              |   |

| <b>ASN.1 ASP Constraint Declaration</b> |   |
|---|---|
| <b>Constraint Name</b>                  | : PVC_CLEAR   |
| <b>ASP Type</b>                         | : Mgmt  |
| <b>Derivation Path</b>                  | :   |
| <b>Comments</b>                         | : Primitive used to notify IUT to clear all PVCs from the PVC table |
| <b>Constraint Value</b>                 |   |
| <pre>{   msg '01'O }</pre>              |   |
| <b>Detailed Comments</b> :              |   |

| <b>ASN.1 ASP Constraint Declaration</b> |  |
|---|--|
| <b>Constraint Name</b>                  | : PVC_DELETE                                   |
| <b>ASP Type</b>                         | : Mgmt   |
| <b>Derivation Path</b>                  | :  |
| <b>Comments</b>                         | : Primitive used to notify IUT to delete a PVC |
| <b>Constraint Value</b>                 |  |
| <pre>{   msg '02'O }</pre>              |  |
| <b>Detailed Comments</b> :              |  |

| <b>ASN.1 ASP Constraint Declaration</b> |   |
|---|---|
| <b>Constraint Name</b>                  | : PVC_SEG_ADD   |
| <b>ASP Type</b>                         | : Mgmt  |
| <b>Derivation Path</b>                  | :   |
| <b>Comments</b>                         | : Primitive used to notify IUT to add a new PVC segment |
| <b>Constraint Value</b>                 |   |
| <pre>{   msg '03'O }</pre>              |   |
| <b>Detailed Comments</b> :              |   |

| <b>ASN.1 ASP Constraint Declaration</b> |   |
|---|---|
| <b>Constraint Name</b>                  | : PVC_SEG_CLEAR   |
| <b>ASP Type</b>                         | : Mgmt  |
| <b>Derivation Path</b>                  | :   |
| <b>Comments</b>                         | : Primitive used to notify IUT to clear all PVC segments from the PVC table |
| <b>Constraint Value</b>                 |   |
| {                                       | msg '04'O   |
| }                                       |   |
| <b>Detailed Comments</b>                | :   |

| <b>ASN.1 PDU Constraint Declaration</b>   |  |
|---|--|
| <b>Constraint Name</b>  | : ST_V1(SS,RS:OCTETSTRING)               |
| <b>PDU Type</b>   | : Status                                 |
| <b>Derivation Path</b>  | :  |
| <b>Comments</b>   | : Valid STATUS message w/ LIV only – E07 |
| <b>Constraint Value</b>   |  |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(link_integrity),   link_integrity_verification liv(SS, RS) }</pre> |  |
| <b>Detailed Comments</b> :  |  |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_V2(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Valid STATUS message w/ full status (initial FS report: 2 new PVCs – one active, one inactive) – E02 |
| <b>Constraint Value</b>  |  |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(first_dlcI, new, active),     pvc_stat(second_dlcI, new, inactive)   } }</pre> |  |
| <b>Detailed Comments</b> :   |  |

| <b>ASN.1 PDU Constraint Declaration</b>   |   |
|---|---|
| <b>Constraint Name</b>  | : ST_V3(SS,RS:OCTETSTRING)  |
| <b>PDU Type</b>   | : Status  |
| <b>Derivation Path</b>  | :   |
| <b>Comments</b>   | : Valid STATUS message w/ full status; addition of a new PVC (new and active) – E03 |
| <b>Constraint Value</b>   |   |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(first_dlcI, already_present, active),     pvc_stat(second_dlcI, already_present, inactive),     pvc_stat(third_dlcI, new, active)   } } </pre> |   |
| <b>Detailed Comments</b>  | :   |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_V4(SS,RS:OCTETSTRING)                                     |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Valid STATUS message w/ full status; deletion of a PVC – E04 |
| <b>Constraint Value</b>  |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(first_dlcI, already_present, active)   } } </pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_V5(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Valid STATUS message w/ full status; activation of an inactive PVC – E05 |
| <b>Constraint Value</b>  |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(first_dlcI, already_present, active),     pvc_stat(second_dlcI, already_present, active)   } } </pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_V6(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Valid STATUS message w/ full status; deactivation of an active PVC – E06 |
| <b>Constraint Value</b>  |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(first_dlcI, already_present, inactive),     pvc_stat(second_dlcI, already_present, inactive)   } } </pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_V7  |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Valid STATUS message w/ single PVC asynchronous status; PVC already present and active – E11 |
| <b>Constraint Value</b>  |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(single_pvc_asynch),   pvc_status {     pvc_stat(second_dlci, already_present, active)   } } </pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_V8(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Valid STATUS message w/ full status; one active and one inactive PVC, both already present – E05 |
| <b>Constraint Value</b>  |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(first_dlci, already_present, active),     pvc_stat(second_dlci, already_present, inactive)   } } </pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_V9(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Valid STATUS message w/ full status; any PVC IE list is accepted |
| <b>Constraint Value</b>  |  |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status * }</pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>   |  |
|---|--|
| <b>Constraint Name</b>  | : ST_V10   |
| <b>PDU Type</b>   | : Status   |
| <b>Derivation Path</b>  | :  |
| <b>Comments</b>   | : Valid STATUS message w/ single PVC asynchronous status; a PVC IE must be present |
| <b>Constraint Value</b>   |  |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(single_pvc_asynch),   pvc_status {     pvc_stat(?, ?, ?)   } }</pre> |  |
| <b>Detailed Comments</b>  | :  |

| <b>ASN.1 PDU Constraint Declaration</b>   |   |
|---|---|
| <b>Constraint Name</b>  | : ST_V11(SS,RS:OCTETSTRING;DLCI,NEW:BITSTRING)  |
| <b>PDU Type</b>   | : Status  |
| <b>Derivation Path</b>  | :   |
| <b>Comments</b>   | : Valid STATUS message w/ full status; one PVC status IE present with DLCI and new bits as specified in the parameter list – BE17 |
| <b>Constraint Value</b>   |   |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(DLCI, NEW, ?)   } } </pre> |   |
| <b>Detailed Comments</b>  | :   |

| <b>ASN.1 PDU Constraint Declaration</b>  |   |
|--|---|
| <b>Constraint Name</b>   | : ST_V12(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>  | : Status  |
| <b>Derivation Path</b>   | :   |
| <b>Comments</b>  | : Valid STATUS message w/ full status; one PVC status IE present – BE17 |
| <b>Constraint Value</b>  |   |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat_any_dlcI(new, ?)   } } </pre> |   |
| <b>Detailed Comments</b>   | :   |

| <b>ASN.1 PDU Constraint Declaration</b>  |   |
|--|---|
| <b>Constraint Name</b>   | : ST_V13(SS,RS:OCTETSTRING)                                       |
| <b>PDU Type</b>  | : Status  |
| <b>Derivation Path</b>   | :   |
| <b>Comments</b>  | : Valid STATUS message w/ full status and no PVC status IE – BE18 |
| <b>Constraint Value</b>  |   |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS) }</pre> |   |
| <b>Detailed Comments</b>   | :   |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_V14(SS,RS:OCTETSTRING;DLCI,ACTIVE:BITSTRING)  |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Valid STATUS message w/ full status; one PVC status IE present with DLCI and active bits as specified in the parameter list – BE21 |
| <b>Constraint Value</b>  |  |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(DLCI, ?, ACTIVE)   } }</pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_V15(SS,RS:OCTETSTRING)  |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Valid STATUS message w/ full status; one PVC status IE present w/ new and active bits set to one |
| <b>Constraint Value</b>  |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat_any_dlc(new, active)   } } </pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>   |   |
|---|---|
| <b>Constraint Name</b>  | : ST_V16(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>   | : Status  |
| <b>Derivation Path</b>  | :   |
| <b>Comments</b>   | : Valid STATUS message w/ full status; two PVC status IE present – BE23 |
| <b>Constraint Value</b>   |   |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat_any_dlc(?, ?),     pvc_stat_any_dlc(?, ?)   } } </pre> |   |
| <b>Detailed Comments</b>  | :   |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_N1(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Invalid STATUS message w/ full status; protocol discrimination error – E12 |
| <b>Constraint Value</b>  |  |
| <pre>{   protocol_discriminator invalid_pd,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(first_dlcI, already_present, active),     pvc_stat(second_dlcI, already_present, active)   } }</pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>                                 |   |
|---|---|
| <b>Constraint Name</b>  | : ST_N2   |
| <b>PDU Type</b>   | : Status  |
| <b>Derivation Path</b>  | :   |
| <b>Comments</b>   | : Invalid message – too short (i.e. protocol discriminator and call reference only) – E13 |
| <b>Constraint Value</b>   |   |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr }</pre> |   |
| <b>Detailed Comments</b>  | :   |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_N3(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Invalid STATUS message w/ LIV only; invalid call reference – E14 |
| <b>Constraint Value</b>  |  |
| <pre>{   protocol_discriminator q931,   call_reference global_cr,   message_type status,   report_type rep_type(link_integrity),   link_integrity_verification liv(SS, RS) }</pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>   |   |
|---|---|
| <b>Constraint Name</b>  | : ST_N3b(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>   | : Status  |
| <b>Derivation Path</b>  | :   |
| <b>Comments</b>   | : Invalid STATUS message w/ full status; invalid call reference – E14 |
| <b>Constraint Value</b>   |   |
| <pre> {   protocol_discriminator q931,   call_reference global_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(first_dlci, already_present, active),     pvc_stat(second_dlci, already_present, active)   } } </pre> |   |
| <b>Detailed Comments</b>  | :   |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_N4(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Invalid message: undefined message type; remainder of message appears as valid full status – E15 |
| <b>Constraint Value</b>  |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type undefined_message_type,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(first_dlci, already_present, active),     pvc_stat(second_dlci, already_present, active)   } } </pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_N6(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Invalid STATUS message: invalid report type; remainder of message appears as valid full status – E16 |
| <b>Constraint Value</b>  |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(undefined_report_type),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(first_dlcI, already_present, active),     pvc_stat(second_dlcI, already_present, active)   } } </pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>   |   |
|---|---|
| <b>Constraint Name</b>  | : ST_N7(SS,RS:OCTETSTRING)  |
| <b>PDU Type</b>   | : Status_RTrep  |
| <b>Derivation Path</b>  | :   |
| <b>Comments</b>   | : Invalid STATUS message w/ full status; duplicated report type – E25 |
| <b>Constraint Value</b>   |   |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type1 rep_type(full_status),   report_type2 rep_type(undefined_report_type),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(first_dlcI, already_present, active),     pvc_stat(second_dlcI, already_present, active)   } } </pre> |   |
| <b>Detailed Comments</b>  | :   |

| <b>ASN.1 PDU Constraint Declaration</b>  |   |
|--|---|
| <b>Constraint Name</b>   | : ST_N8(SS,RS:OCTETSTRING)                                    |
| <b>PDU Type</b>  | : Status_LIVrep   |
| <b>Derivation Path</b>   | :   |
| <b>Comments</b>  | : Invalid STATUS message w/ full status; duplicated LIV – E26 |
| <b>Constraint Value</b>  |   |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification1 liv(SS, RS),   link_integrity_verification2 liv_miss_rsn(SS),   pvc_status {     pvc_stat(first_dlcI, already_present, active),     pvc_stat(second_dlcI, already_present, active)   } } </pre> |   |
| <b>Detailed Comments</b>   | :   |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_N9(SS,RS:OCTETSTRING)                                     |
| <b>PDU Type</b>  | : Status_LIVrep  |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Invalid STATUS message w/ full status; unrecognized IE – E24 |
| <b>Constraint Value</b>  |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification1 unrec_ie(SS, RS),   link_integrity_verification2 liv(SS, RS),   pvc_status {     pvc_stat(first_dlcI, already_present, active),     pvc_stat(second_dlcI, already_present, active)   } } </pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>   |   |
|---|---|
| <b>Constraint Name</b>  | : ST_N11(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>   | : Status  |
| <b>Derivation Path</b>  | :   |
| <b>Comments</b>   | : Invalid STATUS message w/ full status; duplicate PVC status for same DLCI – E28 |
| <b>Constraint Value</b>   |   |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(first_dlcI, already_present, active),     pvc_stat(first_dlcI, new, inactive),     pvc_stat(second_dlcI, already_present, inactive)   } } </pre> |   |
| <b>Detailed Comments</b>  | :   |

| <b>ASN.1 PDU Constraint Declaration</b>   |  |
|---|--|
| <b>Constraint Name</b>  | : ST_N12(SS,RS:OCTETSTRING)                                      |
| <b>PDU Type</b>   | : Status   |
| <b>Derivation Path</b>  | :  |
| <b>Comments</b>   | : Invalid STATUS message; mandatory report type IE missing – E20 |
| <b>Constraint Value</b>   |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(first_dlcI, already_present, active),     pvc_stat(second_dlcI, already_present, active)   } } </pre> |  |
| <b>Detailed Comments</b>  | :  |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_N13   |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Invalid STATUS message w/ LIV only; mandatory LIV IE missing – E21 |
| <b>Constraint Value</b>  |  |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(link_integrity) }</pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>   |   |
|---|---|
| <b>Constraint Name</b>  | : ST_N13b   |
| <b>PDU Type</b>   | : Status  |
| <b>Derivation Path</b>  | :   |
| <b>Comments</b>   | : Invalid STATUS message w/ full status; mandatory LIV IE missing – E21 |
| <b>Constraint Value</b>   |   |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   pvc_status {     pvc_stat(first_dlci, already_present, active),     pvc_stat(second_dlci, already_present, active)   } }</pre> |   |
| <b>Detailed Comments</b>  | :   |

| <b>ASN.1 PDU Constraint Declaration</b>   |  |
|---|--|
| <b>Constraint Name</b>  | : ST_N14(SS,RS:OCTETSTRING)  |
| <b>PDU Type</b>   | : Status   |
| <b>Derivation Path</b>  | :  |
| <b>Comments</b>   | : Invalid STATUS message w/ full status; PVC status with new bit off for new PVC – E32 |
| <b>Constraint Value</b>   |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(first_dlcI, already_present, active),     pvc_stat(second_dlcI, already_present, inactive),     pvc_stat(third_dlcI, already_present, active)   } } </pre> |  |
| <b>Detailed Comments</b>  | :  |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_N15(SS,RS:OCTETSTRING)  |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Invalid STATUS message w/ full status; PVC status with new bit on for existing PVC – E33 |
| <b>Constraint Value</b>  |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(first_dlcI, new, active),     pvc_stat(second_dlcI, already_present, inactive)   } } </pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_N16(SS,RS:OCTETSTRING)  |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Invalid STATUS message w/ full status; PVC status IEs out of order – E23 |
| <b>Constraint Value</b>  |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(second_dlci, already_present, inactive),     pvc_stat(first_dlci, already_present, active)   } } </pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>  |   |
|--|---|
| <b>Constraint Name</b>   | : ST_N17(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>  | : Status  |
| <b>Derivation Path</b>   | :   |
| <b>Comments</b>  | : Invalid STATUS message w/ mandatory IE content error; report type IE is missing rept type value field – E17 |
| <b>Constraint Value</b>  |   |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type empty_report_type,   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(first_dlci, already_present, active),     pvc_stat(second_dlci, already_present, active)   } } </pre> |   |
| <b>Detailed Comments</b>   | :   |

| <b>ASN.1 PDU Constraint Declaration</b>  |   |
|--|---|
| <b>Constraint Name</b>   | : ST_N18(SS:OCTETSTRING)  |
| <b>PDU Type</b>  | : Status  |
| <b>Derivation Path</b>   | :   |
| <b>Comments</b>  | : Invalid STATUS message w/ LIV only; mandatory IE content error: LIV IE is missing receive sequence number – E18 |
| <b>Constraint Value</b>  |   |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(link_integrity),   link_integrity_verification liv_miss_rsn(SS) }</pre> |   |
| <b>Detailed Comments</b> :   |   |

| <b>ASN.1 PDU Constraint Declaration</b>   |  |
|---|--|
| <b>Constraint Name</b>  | : ST_N18b(SS:OCTETSTRING)  |
| <b>PDU Type</b>   | : Status   |
| <b>Derivation Path</b>  | :  |
| <b>Comments</b>   | : Invalid STATUS message w/ full status; mandatory IE content error: LIV IE is missing receive sequence number – E18 |
| <b>Constraint Value</b>   |  |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv_miss_rsn(SS),   pvc_status {     pvc_stat(first_dlc, already_present, active),     pvc_stat(second_dlc, already_present, active)   } }</pre> |  |
| <b>Detailed Comments</b> :  |  |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_N19(SS,RS:OCTETSTRING)  |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Invalid STATUS message w/ full status; mandatory IE content error: LIV IE has invalid length field – E'9 |
| <b>Constraint Value</b>  |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv_inval_len(SS, RS),   pvc_status {     pvc_stat(first_dlcI, already_present, active),     pvc_stat(second_dlcI, already_present, active)   } } </pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_N20(SS,RS:OCTETSTRING)  |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Invalid STATUS message w/ full status; non-mandatory IE content error: PVC status IE spare bits set to 1 – E31 |
| <b>Constraint Value</b>  |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat_spare(first_dlcI, already_present, active),     pvc_stat(second_dlcI, already_present, inactive)   } } </pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>   |  |
|---|--|
| <b>Constraint Name</b>  | : ST_N21   |
| <b>PDU Type</b>   | : Status   |
| <b>Derivation Path</b>  | :  |
| <b>Comments</b>   | : Invalid STATUS message w/ single PVC asynchronous status; duplicated PVC status IE – E27 |
| <b>Constraint Value</b>   |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(single_pvc_asynch),   pvc_status {     pvc_stat(first_dlcI, already_present, active),     pvc_stat(second_dlcI, already_present, inactive)   } } </pre> |  |
| <b>Detailed Comments</b>  | :  |

| <b>ASN.1 PDU Constraint Declaration</b>   |   |
|---|---|
| <b>Constraint Name</b>  | : ST_N22(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>   | : Status  |
| <b>Derivation Path</b>  | :   |
| <b>Comments</b>   | : Invalid STATUS message w/ single PVC asynchronous status; unrecognized LIV IE – E29 |
| <b>Constraint Value</b>   |   |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(single_pvc_asynch),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(second_dlcI, already_present, active)   } } </pre> |   |
| <b>Detailed Comments</b>  | :   |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : ST_N24(SS,RS:OCTETSTRING)  |
| <b>PDU Type</b>  | : Status   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Invalid STATUS message w/ full status; PVC status IE has reserved DLCI – E30 |
| <b>Constraint Value</b>  |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(reserved_dlcI, new, active),     pvc_stat(first_dlcI, already_present, active),     pvc_stat(second_dlcI, already_present, inactive)   } } </pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>  |   |
|--|---|
| <b>Constraint Name</b>   | : ST_N26(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>  | : Status_RT00s  |
| <b>Derivation Path</b>   | :   |
| <b>Comments</b>  | : Invalid STATUS message w/ full status; report type IE out of sequence – E22 |
| <b>Constraint Value</b>  |   |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   link_integrity_verification liv(SS, RS),   report_type rep_type(full_status),   pvc_status {     pvc_stat(first_dlcI, already_present, active),     pvc_stat(second_dlcI, already_present, active)   } } </pre> |   |
| <b>Detailed Comments</b>   | :   |

| <b>ASN.1 PDU Constraint Declaration</b>   |   |
|---|---|
| <b>Constraint Name</b>  | : ST_N27  |
| <b>PDU Type</b>   | : Status  |
| <b>Derivation Path</b>  | :   |
| <b>Comments</b>   | : Invalid STATUS message w/ single PVC asynchronous status; new bit off for a new PVC – E34 |
| <b>Constraint Value</b>   |   |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(single_pvc_asynch),   pvc_status {     pvc_stat(third_dlci, already_present, active)   } } </pre> |   |
| <b>Detailed Comments</b>  | :   |

| <b>ASN.1 PDU Constraint Declaration</b>  |   |
|--|---|
| <b>Constraint Name</b>   | : ST_N28(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>  | : Status  |
| <b>Derivation Path</b>   | :   |
| <b>Comments</b>  | : Invalid STATUS message w/ full status; first PVC status IE has first extension bit set to 1 – E38 |
| <b>Constraint Value</b>  |   |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat_ext_1(first_dlci, already_present, active),     pvc_stat(second_dlci, already_present, inactive)   } } </pre> |   |
| <b>Detailed Comments</b>   | :   |

| <b>ASN.1 PDU Constraint Declaration</b>  |   |
|--|---|
| <b>Constraint Name</b>   | : ST_N29(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>  | : Status  |
| <b>Derivation Path</b>   | :   |
| <b>Comments</b>  | : Invalid STATUS message w/ full status; first PVC status IE has third extension bit set to 0 – E39 |
| <b>Constraint Value</b>  |   |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS),   pvc_status {     pvc_stat(first_dlci, already_present, active),     pvc_stat_ext_3(second_dlci, already_present, inactive)   } } </pre> |   |
| <b>Detailed Comments</b>   | :   |

| <b>ASN.1 PDU Constraint Declaration</b>   |  |
|---|--|
| <b>Constraint Name</b>  | : SQ_V1(SS,RS:OCTETSTRING)                 |
| <b>PDU Type</b>   | : Status_Enquiry                           |
| <b>Derivation Path</b>  | :  |
| <b>Comments</b>   | : Valid STATUS ENQUIRY message w/ LIV only |
| <b>Constraint Value</b>   |  |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status_enq,   report_type rep_type(link_integrity),   link_integrity_verification liv(SS, RS) } </pre> |  |
| <b>Detailed Comments</b>  | :  |

| <b>ASN.1 PDU Constraint Declaration</b>  |   |
|--|---|
| <b>Constraint Name</b>   | : SQ_V2(SS,RS:OCTETSTRING)                    |
| <b>PDU Type</b>  | : Status_Enquiry                              |
| <b>Derivation Path</b>   | :   |
| <b>Comments</b>  | : Valid STATUS ENQUIRY message w/ full status |
| <b>Constraint Value</b>  |   |
| <pre> {   protocol_discriminator q931,   call_reference dummy_cr,   message_type status_enq,   report_type rep_type(full_status),   link_integrity_verification liv(SS, RS) } </pre> |   |
| <b>Detailed Comments</b>   | :   |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : SQ_V4(SS,RS:OCTETSTRING)                               |
| <b>PDU Type</b>  | : Status_Enquiry   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Valid STATUS ENQUIRY message w/ report type IE present |
| <b>Constraint Value</b>  |  |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status_enq,   report_type rep_type(?),   link_integrity_verification liv(SS, RS) }</pre> |  |
| <b>Detailed Comments</b>   | :  |

| <b>ASN.1 PDU Constraint Declaration</b>   |  |
|---|--|
| <b>Constraint Name</b>  | : SQ_N1(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>   | : Status_Enquiry   |
| <b>Derivation Path</b>  | :  |
| <b>Comments</b>   | : Invalid STATUS ENQUIRY message; protocol discrimination error – BE05 |
| <b>Constraint Value</b>   |  |
| <pre>{   protocol_discriminator invalid_pd,   call_reference dummy_cr,   message_type status_enq,   report_type rep_type(link_integrity),   link_integrity_verification liv(SS, RS) }</pre> |  |
| <b>Detailed Comments</b>  | :  |

| <b>ASN.1 PDU Constraint Declaration</b>  |   |
|--|---|
| <b>Constraint Name</b>   | : SQ_N2(SS,RS:OCTETSTRING)                                      |
| <b>PDU Type</b>  | : Status_Enquiry  |
| <b>Derivation Path</b>   | :   |
| <b>Comments</b>  | : Invalid STATUS ENQUIRY message; invalid call reference – BE06 |
| <b>Constraint Value</b>  |   |
| <pre>{   protocol_discriminator q931,   call_reference global_cr,   message_type status_enq,   report_type rep_type(link_integrity),   link_integrity_verification liv(SS, RS) }</pre> |   |
| <b>Detailed Comments</b>   | :   |

| <b>ASN.1 PDU Constraint Declaration</b>                                 |  |
|---|--|
| <b>Constraint Name</b>  | : SQ_N3  |
| <b>PDU Type</b>   | : Status_Enquiry   |
| <b>Derivation Path</b>  | :  |
| <b>Comments</b>   | : Invalid message – too short (i.e. protocol discriminator and call reference only) – BE07 |
| <b>Constraint Value</b>   |  |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr }</pre> |  |
| <b>Detailed Comments</b>  | :  |

| <b>ASN.1 PDU Constraint Declaration</b>   |   |
|---|---|
| <b>Constraint Name</b>  | : SQ_N4(SS,RS:OCTETSTRING)                  |
| <b>PDU Type</b>   | : Status_Enquiry                            |
| <b>Derivation Path</b>  | :   |
| <b>Comments</b>   | : Invalid message; undefined message – BE08 |
| <b>Constraint Value</b>   |   |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type undefined_message_type,   report_type rep_type(link_integrity),   link_integrity_verification liv(SS, RS) }</pre> |   |
| <b>Detailed Comments</b>  | :   |

| <b>ASN.1 PDU Constraint Declaration</b>   |  |
|---|--|
| <b>Constraint Name</b>  | : SQ_N5(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>   | : Status_Enquiry_RTos  |
| <b>Derivation Path</b>  | :  |
| <b>Comments</b>   | : Invalid STATUS ENQUIRY message w/ LIV only; report type out of sequence – BE09 |
| <b>Constraint Value</b>   |  |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status_enq,   link_integrity_verification liv(SS, RS),   report_type rep_type(link_integrity) }</pre> |  |
| <b>Detailed Comments</b>  | :  |

| <b>ASN.1 PDU Constraint Declaration</b>   |  |
|---|--|
| <b>Constraint Name</b>  | : SQ_N6(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>   | : Status_Enquiry_LIVrep  |
| <b>Derivation Path</b>  | :  |
| <b>Comments</b>   | : Invalid STATUS ENQUIRY message w/ LIV only; duplicate LIV – BE10 |
| <b>Constraint Value</b>   |  |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status_enq,   report_type rep_type(link_integrity),   link_integrity_verification1 liv(SS, RS),   link_integrity_verification2 liv_miss_rsn(SS) }</pre> |  |
| <b>Detailed Comments</b>  | :  |

| <b>ASN.1 PDU Constraint Declaration</b>   |  |
|---|--|
| <b>Constraint Name</b>  | : SQ_N7(SS,RS:OCTETSTRING)   |
| <b>PDU Type</b>   | : Status_Enquiry_RTrep   |
| <b>Derivation Path</b>  | :  |
| <b>Comments</b>   | : Invalid STATUS ENQUIRY message w/ full status; duplicate report type IE – BE11 |
| <b>Constraint Value</b>   |  |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status_enq,   report_type1 rep_type(full_status),   report_type2 rep_type(undefined_report_type),   link_integrity_verification liv(SS, RS) }</pre> |  |
| <b>Detailed Comments</b>  | :  |

| <b>ASN.1 PDU Constraint Declaration</b>  |   |
|--|---|
| <b>Constraint Name</b>   | : SQ_N8(SS,RS:OCTETSTRING)  |
| <b>PDU Type</b>  | : Status_Enquiry_LIVrep   |
| <b>Derivation Path</b>   | :   |
| <b>Comments</b>  | : Invalid STATUS ENQUIRY message w/ full status; unrecognized IE – BE12 |
| <b>Constraint Value</b>  |   |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status_enq,   report_type rep_type(full_status),   link_integrity_verification1 unrec_ie(SS, RS),   link_integrity_verification2 liv(SS, RS) }</pre> |   |
| <b>Detailed Comments</b>   | :   |

| <b>ASN.1 PDU Constraint Declaration</b>   |   |
|---|---|
| <b>Constraint Name</b>  | : SQ_N9(SS,RS:OCTETSTRING)  |
| <b>PDU Type</b>   | : Status_Enquiry  |
| <b>Derivation Path</b>  | :   |
| <b>Comments</b>   | : Invalid STATUS ENQUIRY message; mandatory report type IE missing – BE13 |
| <b>Constraint Value</b>   |   |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status_enq,   link_integrity_verification liv(SS, RS) }</pre> |   |
| <b>Detailed Comments</b>  | :   |

| <b>ASN.1 PDU Constraint Declaration</b>   |  |
|---|--|
| <b>Constraint Name</b>  | : SQ_N10   |
| <b>PDU Type</b>   | : Status_Enquiry   |
| <b>Derivation Path</b>  | :  |
| <b>Comments</b>   | : Invalid STATUS ENQUIRY message w/ full status; mandatory LIV IE missing – BE14 |
| <b>Constraint Value</b>   |  |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status_enq,   report_type rep_type(full_status) }</pre> |  |
| <b>Detailed Comments</b>  | :  |

| <b>ASN.1 PDU Constraint Declaration</b>  |  |
|--|--|
| <b>Constraint Name</b>   | : SQ_N11(SS,RS:OCTETSTRING)                                    |
| <b>PDU Type</b>  | : Status_Enquiry   |
| <b>Derivation Path</b>   | :  |
| <b>Comments</b>  | : Invalid STATUS ENQUIRY message; undefined report type – BE15 |
| <b>Constraint Value</b>  |  |
| <pre>{   protocol_discriminator q931,   call_reference dummy_cr,   message_type status_enq,   report_type rep_type(undefined_report_type),   link_integrity_verification liv(SS, RS) }</pre> |  |
| <b>Detailed Comments</b>   | :  |

| ASN.1 PDU Constraint Declaration |  |
|----------------------------------|--|
| <b>Constraint Name</b> :         | SQ_N12(SS:OCTETSTRING)   |
| <b>PDU Type</b> :                | Status_Enquiry   |
| <b>Derivation Path</b> :         |  |
| <b>Comments</b> :                | Invalid STATUS ENQUIRY message w/ full status; mandatory LIV IE content error<br>(missing RSN) – BE16  |
| Constraint Value                 |  |
| {                                | protocol_discriminator q931,<br>call_reference dummy_cr,<br>message_type status_enq,<br>report_type rep_type(full_status),<br>link_integrity_verification liv_miss_rsn(SS) |
| }                                |  |
| <b>Detailed Comments</b> :       |  |

# **IV**

## **Dynamic Part**

| Test Case Dynamic Behaviour   |       |   |                 |         |                |
|---|-------|---|-----------------|---------|----------------|
| <b>Test Case Name</b> : PS0_01V   |       |   |                 |         |                |
| <b>Group</b> : Periodic_Polling/General/  |       |   |                 |         |                |
| <b>Purpose</b> : Verify that the IUT initiates periodic polling by sending STATUS ENQUIRY after IUT initialization.<br>Standard Ref.: A.4.1 |       |   |                 |         |                |
| <b>Configuration</b> :  |       |   |                 |         |                |
| <b>Default</b> :  |       |   |                 |         |                |
| <b>Comments</b> :   |       |   |                 |         |                |
| Nr  | Label | Behaviour Description   | Constraints Ref | Verdict | Comments       |
| 1   |       | +PS0_PREAMBLE   |                 |         |                |
| 2   |       | START T392  |                 |         |                |
| 3   | L1    | L?Status_Enquiry (N := 1, RSN := Status_Enquiry.link_integrity_verification.s<br>end_seq) CANCEL T392     | SQ_V2(?,SSN)    | (P)     | RT=Full status |
| 4   |       | +INCR_SN(SSN)   |                 |         |                |
| 5   |       | L!Status  | ST_V8(SSN,RSN)  |         |                |
| 6   |       | +P_POSTAMBLE  |                 |         |                |
| 7   |       | L?Status_Enquiry (N := N + 1, RSN := Status_Enquiry.link_integrity_verification.s<br>end_seq) CANCEL T392 | SQ_V1(?,SSN)    | (P)     | RT=LIV only    |
| 8   |       | +INCR_SN(SSN)   |                 |         |                |
| 9   |       | L!Status  | ST_V1(SSN,RSN)  |         |                |
| 10  |       | +P_POSTAMBLE  |                 |         |                |
| 11  |       | ?TIMEOUT T392   |                 | (F)     |                |
| 12  |       | +P_POSTAMBLE  |                 |         |                |
| 13  |       | +P_UNEXPECTED   |                 |         |                |
| 14  |       | GOTO L1   |                 |         |                |
| 15  |       | L?OTHERWISE   |                 | (F)     |                |
| 16  |       | +P_POSTAMBLE  |                 |         |                |
| <b>Detailed Comments</b> :  |       |   |                 |         |                |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_02V  |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/General/   |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report type when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.4.1 |       |                       |                 |         |          |
| <b>Configuration</b> :   |       |                       |                 |         |          |
| <b>Default</b> :   |       |                       |                 |         |          |
| <b>Comments</b> :  |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         |                 |         |          |
| 2  |       | +INCR_SN(SSN)         |                 |         |          |
| 3  |       | L!Status              | ST_V2(SSN,RSN)  |         |          |
| 4  |       | +P_VERIFICATION       |                 |         |          |
| 5  |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_03V<br><b>Group</b> : Periodic_Polling/General/<br><b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report type containing PVC status IE identifying an unknown DLCI and the new bit set to 1 when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.4.3<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         | ST_V3(SSN,RSN)  |         |          |
| 2  |       | +INCR_SN(SSN)         |                 |         |          |
| 3  |       | L!Status              |                 |         |          |
| 4  |       | +P_VERIFICATION       |                 |         |          |
| 5  |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_04V<br><b>Group</b> : Periodic_Polling/General/<br><b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report type, omitting the PVC status IE of a previously reported PVC, when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.4.1.5<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         | ST_V4(SSN,RSN)  |         |          |
| 2  |       | +INCR_SN(SSN)         |                 |         |          |
| 3  |       | L!Status              |                 |         |          |
| 4  |       | +P_VERIFICATION       |                 |         |          |
| 5  |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Case Dynamic Behaviour   |       |                       |                 |         |          |
|---|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_05V   |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/General/  |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report type reporting the availability of a PVC (active bit set to 1) for a previously inactive PVC when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.:A.4.4 |       |                       |                 |         |          |
| <b>Configuration</b> :  |       |                       |                 |         |          |
| <b>Default</b> :  |       |                       |                 |         |          |
| <b>Comments</b> :   |       |                       |                 |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1   |       | +PS1_PREAMBLE         |                 |         |          |
| 2   |       | +INCR_SN(SSN)         |                 |         |          |
| 3   |       | L!Status              | ST_V5(SSN,RSN)  |         |          |
| 4   |       | +P_VERIFICATION       |                 |         |          |
| 5   |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :  |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_06V  |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/General/   |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report type reporting the unavailability of a PVC (active bit set to 0) when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.4.4 |       |                       |                 |         |          |
| <b>Configuration</b> :   |       |                       |                 |         |          |
| <b>Default</b> :   |       |                       |                 |         |          |
| <b>Comments</b> :  |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         |                 |         |          |
| 2  |       | +INCR_SN(SSN)         |                 |         |          |
| 3  |       | L!Status              | ST_V6(SSN,RSN)  |         |          |
| 4  |       | +P_VERIFICATION       |                 |         |          |
| 5  |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                      |         |          |
|--|-------|-----------------------|----------------------|---------|----------|
| <b>Test Case Name</b> : PS1_071  |       |                       |                      |         |          |
| <b>Group</b> : Periodic_Polling/General/   |       |                       |                      |         |          |
| <b>Purpose</b> : Verify that the IUT ignores a STATUS w/ link integrity verification report type when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5.2 |       |                       |                      |         |          |
| <b>Configuration</b> :   |       |                       |                      |         |          |
| <b>Default</b> :   |       |                       |                      |         |          |
| <b>Comments</b> :  |       |                       |                      |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref      | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         |                      |         |          |
| 2  |       | (INVAL_SSN := SSN)    |                      |         |          |
| 3  |       | +INCR_SN(INVAL_SSN)   |                      |         |          |
| 4  |       | L!Status              | ST_V1(INVAL_SSN,RSN) |         |          |
| 5  |       | +P_VERIFICATION       |                      |         |          |
| 6  |       | +P_POSTAMBLE          |                      |         |          |
| <b>Detailed Comments</b> :   |       |                       |                      |         |          |

| Test Case Dynamic Behaviour   |       |  |                 |         |          |
|---|-------|--|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_08V   |       |  |                 |         |          |
| <b>Group</b> : Periodic_Polling/General/  |       |  |                 |         |          |
| <b>Purpose</b> : Verify that the IUT sends a STATUS ENQUIRY w/ full status report type after after a unanswered N391 th polling cycle when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.4.1 |       |  |                 |         |          |
| <b>Configuration</b> :  |       |  |                 |         |          |
| <b>Default</b> :  |       |  |                 |         |          |
| <b>Comments</b> :   |       |  |                 |         |          |
| Nr  | Label | Behaviour Description  | Constraints Ref | Verdict | Comments |
| 1   |       | +PS1_PREAMBLE  |                 |         |          |
| 2   |       | START T392   |                 |         |          |
| 3   | L1    | L?Status_Enquiry (N := 1, RSN := Status_Enquiry.link_integrity_verification.s end_seq) CANCEL T392 | SQ_V2(?,SSN)    | (P)     |          |
| 4   |       | +INCR_SN(SSN)  |                 |         |          |
| 5   |       | L!Status   | ST_V8(SSN,RSN)  |         |          |
| 6   |       | +P_POSTAMBLE   |                 |         |          |
| 7   |       | ?TIMEOUT T392  |                 | (F)     |          |
| 8   |       | +P_POSTAMBLE   |                 |         |          |
| 9   |       | +P_UNEXPECTED  |                 |         |          |
| 10  |       | GOTO L1  |                 |         |          |
| 11  |       | L?OTHERWISE  |                 | (F)     |          |
| 12  |       | +P_POSTAMBLE   |                 |         |          |
| <b>Detailed Comments</b> :  |       |  |                 |         |          |

| Test Case Dynamic Behaviour  |       |  |                                     |         |          |     |
|--|-------|--|-------------------------------------|---------|----------|-----|
| <b>Test Case Name</b> : PS1_09V<br><b>Group</b> : Periodic_Polling/General/<br><b>Purpose</b> : Verify that the IUT sends a STATUS ENQUIRY w/ full status report type after a unanswered polling cycle prior to the N391 st polling cycle when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.4.1<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |  |                                     |         |          |     |
| Nr   | Label | Behaviour Description  | Constraints Ref                     | Verdict | Comments |     |
| 1  | L1    | +PS1_PREAMBLE  | SQ_V2(? ,SSN)<br><br>ST_V8(SSN,RSN) | (P)     |          |     |
| 2  |       | START T392   |                                     |         |          |     |
| 3  |       | L?Status_Enquiry (RSN := Status_Enquiry.link_integrity_verification.s end_seq, N := 1) CANCEL T392 |                                     |         |          |     |
| 4  |       | +INCR_SN(SSN)  |                                     |         |          |     |
| 5  |       | L!Status   |                                     |         |          |     |
| 6  |       | +P_POSTAMBLE   |                                     |         |          |     |
| 7  |       | ?TIMEOUT T392  |                                     |         |          | (F) |
| 8  |       | +P_POSTAMBLE   |                                     |         |          |     |
| 9  |       | +P_UNEXPECTED  |                                     |         |          |     |
| 10   |       | GOTO L1  |                                     |         |          |     |
| 11   |       | L?OTHERWISE  |                                     |         |          | (F) |
| 12   |       | +P_POSTAMBLE   |                                     |         |          |     |
| <b>Detailed Comments</b> :   |       |  |                                     |         |          |     |

| Test Case Dynamic Behaviour   |       |                       |                 |         |          |
|---|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_11V<br><b>Group</b> : Periodic_Polling/General/<br><b>Purpose</b> : Verify that the IUT continues periodic polling after receiving a STATUS w/ single PVC asynchronous status report type when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.1.1, A.4.1<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                       |                 |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1   |       | +PS1_PREAMBLE         | ST_V7           |         | (1)      |
| 2   |       | L!Status              |                 |         |          |
| 3   |       | (N := N391)           |                 |         |          |
| 4   |       | +P_VERIFICATION       |                 |         |          |
| 5   |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> : (1) Next poll must be a full STATUS ENQUIRY  |       |                       |                 |         |          |

| Test Case Dynamic Behaviour   |       |                       |                      |         |          |
|---|-------|-----------------------|----------------------|---------|----------|
| <b>Test Case Name</b> : PS2_021   |       |                       |                      |         |          |
| <b>Group</b> : Periodic_Polling/General/  |       |                       |                      |         |          |
| <b>Purpose</b> : Verify that the IUT ignores an unsolicited STATUS w/ full status report type when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5.2 |       |                       |                      |         |          |
| <b>Configuration</b> :  |       |                       |                      |         |          |
| <b>Default</b> :  |       |                       |                      |         |          |
| <b>Comments</b> :   |       |                       |                      |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref      | Verdict | Comments |
| 1   |       | +PS20_PREAMBLE        |                      |         |          |
| 2   |       | (INVAL_SSN := SSN)    |                      |         |          |
| 3   |       | +INCR_SN(INVAL_SSN)   |                      |         |          |
| 4   |       | L!Status              | ST_V2(INVAL_SSN,RSN) |         |          |
| 5   |       | +P_VERIFICATION       |                      |         |          |
| 6   |       | +P_POSTAMBLE          |                      |         |          |
| <b>Detailed Comments</b> :  |       |                       |                      |         |          |

| Test Case Dynamic Behaviour   |       |                       |                      |         |          |
|---|-------|-----------------------|----------------------|---------|----------|
| <b>Test Case Name</b> : PS2_071   |       |                       |                      |         |          |
| <b>Group</b> : Periodic_Polling/General/  |       |                       |                      |         |          |
| <b>Purpose</b> : Verify that the IUT ignores an unsolicited STATUS w/ link integrity verificationonly report type when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5.2 |       |                       |                      |         |          |
| <b>Configuration</b> :  |       |                       |                      |         |          |
| <b>Default</b> :  |       |                       |                      |         |          |
| <b>Comments</b> :   |       |                       |                      |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref      | Verdict | Comments |
| 1   |       | +PS20_PREAMBLE        |                      |         |          |
| 2   |       | (INVAL_SSN := SSN)    |                      |         |          |
| 3   |       | +INCR_SN(INVAL_SSN)   |                      |         |          |
| 4   |       | L!Status              | ST_V1(INVAL_SSN,RSN) |         |          |
| 5   |       | +P_VERIFICATION       |                      |         |          |
| 6   |       | +P_POSTAMBLE          |                      |         |          |
| <b>Detailed Comments</b> :  |       |                       |                      |         |          |

| Test Case Dynamic Behaviour   |       |  |                 |         |          |
|---|-------|--|-----------------|---------|----------|
| <b>Test Case Name</b> : PS2_08V   |       |  |                 |         |          |
| <b>Group</b> : Periodic_Polling/General/  |       |  |                 |         |          |
| <b>Purpose</b> : Verify that the IUT sends a STATUS ENQUIRY w/ full status report type on the N391 th polling cycle when the IUT is in state S2. The final IUT state is expected to be S1. Standard Ref.: A.4.1 |       |  |                 |         |          |
| <b>Configuration</b> :  |       |  |                 |         |          |
| <b>Default</b> :  |       |  |                 |         |          |
| <b>Comments</b> :   |       |  |                 |         |          |
| Nr  | Label | Behaviour Description  | Constraints Ref | Verdict | Comments |
| 1   | L1    | +PS21_PREAMBLE   |                 |         |          |
| 2   |       | START T392   |                 |         |          |
| 3   |       | L?Status_Enquiry (N := 1, RSN := Status_Enquiry.link_integrity_verification.s end_seq) CANCEL T392 | SQ_V2(?,SSN)    | (P)     |          |
| 4   |       | +INCR_SN(SSN)  |                 |         |          |
| 5   |       | L!Status   | ST_V8(SSN,RSN)  |         |          |
| 6   |       | +P_POSTAMBLE   |                 |         |          |
| 7   |       | ?TIMEOUT T392  |                 |         | (F)      |
| 8   |       | +P_POSTAMBLE   |                 |         |          |
| 9   |       | +P_UNEXPECTED  |                 |         |          |
| 10  |       | GOTO L1  |                 |         |          |
| 11  |       | L?OTHERWISE  |                 |         | (F)      |
| 12  |       | +P_POSTAMBLE   |                 |         |          |
| <b>Detailed Comments</b> :  |       |  |                 |         |          |

| Test Case Dynamic Behaviour   |       |  |                                    |         |          |     |
|---|-------|--|------------------------------------|---------|----------|-----|
| <b>Test Case Name</b> : PS2_09V<br><b>Group</b> : Periodic_Polling/General/<br><b>Purpose</b> : Verify that the IUT sends a STATUS ENQUIRY w/ link integrity verification only report type after T391 expiration on a polling cycle prior to the N391 th polling cycle when the IUT is in state S2. The final IUT state is expected to be S3. Standard Ref.: A.4.1<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |  |                                    |         |          |     |
| Nr  | Label | Behaviour Description  | Constraints Ref                    | Verdict | Comments |     |
| 1   | L1    | +PS20_PREAMBLE   | SQ_V1(?,SSN)<br><br>ST_V1(SSN,RSN) | (P)     |          |     |
| 2   |       | START T392   |                                    |         |          |     |
| 3   |       | L?Status_Enquiry (RSN := Status_Enquiry.link_integrity_verification.s end_seq, N := N + 1) CANCEL T392 |                                    |         |          |     |
| 4   |       | +INCR_SN(SSN)  |                                    |         |          |     |
| 5   |       | L!Status   |                                    |         |          |     |
| 6   |       | +P_POSTAMBLE   |                                    |         |          |     |
| 7   |       | ?TIMEOUT T392  |                                    |         |          | (F) |
| 8   |       | +P_POSTAMBLE   |                                    |         |          |     |
| 9   |       | +P_UNEXPECTED  |                                    |         |          |     |
| 10  |       | GOTO L1  |                                    |         |          |     |
| 11  |       | L?OTHERWISE  |                                    |         |          | (F) |
| 12  |       | +P_POSTAMBLE   |                                    |         |          |     |
| <b>Detailed Comments</b> :  |       |  |                                    |         |          |     |

| Test Case Dynamic Behaviour   |       |                       |                 |         |          |
|---|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS2_11V<br><b>Group</b> : Periodic_Polling/General/<br><b>Purpose</b> : Verify that the IUT continues periodic polling after receiving a STATUS w/ single PVC asynchronous status report type when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.1.1, A.4.1<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                       |                 |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1   |       | +PS20_PREAMBLE        | ST_V7           |         |          |
| 2   |       | L!Status              |                 |         |          |
| 3   |       | +P_VERIFICATION       |                 |         |          |
| 4   |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :  |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS3_02V  |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/General/   |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report type when the IUT is in state S3. The final IUT state is expected to be S2. Standard Ref.: A.4.1.4 |       |                       |                 |         |          |
| <b>Configuration</b> :   |       |                       |                 |         |          |
| <b>Default</b> :   |       |                       |                 |         |          |
| <b>Comments</b> :  |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS30_PREAMBLE        | ST_V2(SSN,RSN)  |         |          |
| 2  |       | +INCR_SN(SSN)         |                 |         |          |
| 3  |       | L!Status              |                 |         |          |
| 4  |       | +P_VERIFICATION       |                 |         |          |
| 5  |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS3_03V  |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/General/   |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report type containing PVC status IE identifying an unknown DLCI and the new bit set to 1 when the IUT is in state S3. The final IUT state is expected to be S2. Standard Ref.: A.4.3 |       |                       |                 |         |          |
| <b>Configuration</b> :   |       |                       |                 |         |          |
| <b>Default</b> :   |       |                       |                 |         |          |
| <b>Comments</b> :  |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS30_PREAMBLE        | ST_V3(SSN,RSN)  |         |          |
| 2  |       | +INCR_SN(SSN)         |                 |         |          |
| 3  |       | L!Status              |                 |         |          |
| 4  |       | +P_VERIFICATION       |                 |         |          |
| 5  |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Case Dynamic Behaviour   |       |                       |                 |         |          |
|---|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS3_04V   |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/General/  |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report, omitting the PVC status IE of a previously reported PVC, when the IUT is in state S3. The final IUT state is expected to be S2. Standard Ref.: A.4.1.5 |       |                       |                 |         |          |
| <b>Configuration</b> :  |       |                       |                 |         |          |
| <b>Default</b> :  |       |                       |                 |         |          |
| <b>Comments</b> :   |       |                       |                 |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1   |       | +PS30_PREAMBLE        |                 |         |          |
| 2   |       | +INCR_SN(SSN)         |                 |         |          |
| 3   |       | L!Status              | ST_V4(SSN,RSN)  |         |          |
| 4   |       | +P_VERIFICATION       |                 |         |          |
| 5   |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :  |       |                       |                 |         |          |

| Test Case Dynamic Behaviour   |       |                       |                 |         |          |
|---|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS3_05V   |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/General/  |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report type reporting the availability of a PVC (active bit set to 1) for a previously inactive PVC when the IUT is in state S3. The final IUT state is expected to be S2. Standard Ref.:A.4.4 |       |                       |                 |         |          |
| <b>Configuration</b> :  |       |                       |                 |         |          |
| <b>Default</b> :  |       |                       |                 |         |          |
| <b>Comments</b> :   |       |                       |                 |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1   |       | +PS30_PREAMBLE        |                 |         |          |
| 2   |       | +INCR_SN(SSN)         |                 |         |          |
| 3   |       | L!Status              | ST_V5(SSN,RSN)  |         |          |
| 4   |       | +P_VERIFICATION       |                 |         |          |
| 5   |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :  |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS3_06V  |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/General/   |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report type reporting the unavailability of a PVC (active bit set to 0) when the IUT is in state S3. The final IUT state is expected to be S2. Standard Ref.: A.4.4 |       |                       |                 |         |          |
| <b>Configuration</b> :   |       |                       |                 |         |          |
| <b>Default</b> :   |       |                       |                 |         |          |
| <b>Comments</b> :  |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS30_PREAMBLE        | ST_V6(SSN,RSN)  |         |          |
| 2  |       | +INCR_SN(SSN)         |                 |         |          |
| 3  |       | L!Status              |                 |         |          |
| 4  |       | +P_VERIFICATION       |                 |         |          |
| 5  |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS3_07V  |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/General/   |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS w/ link integrity verification report type when the IUT is in state S3. The final IUT state is expected to be S2. Standard Ref.: A.4.1 |       |                       |                 |         |          |
| <b>Configuration</b> :   |       |                       |                 |         |          |
| <b>Default</b> :   |       |                       |                 |         |          |
| <b>Comments</b> :  |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS30_PREAMBLE        | ST_V1(SSN,RSN)  |         |          |
| 2  |       | +INCR_SN(SSN)         |                 |         |          |
| 3  |       | L!Status              |                 |         |          |
| 4  |       | +P_VERIFICATION       |                 |         |          |
| 5  |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Case Dynamic Behaviour   |       |  |                 |         |          |
|---|-------|--|-----------------|---------|----------|
| <b>Test Case Name</b> : PS3_08V   |       |  |                 |         |          |
| <b>Group</b> : Periodic_Polling/General/  |       |  |                 |         |          |
| <b>Purpose</b> : Verify that the IUT sends a STATUS ENQUIRY w/ full status report type after a unanswered N391 th polling cycle when the IUT is in state S3. The final IUT state is expected to be S1. Standard Ref.: A.4.1 |       |  |                 |         |          |
| <b>Configuration</b> :  |       |  |                 |         |          |
| <b>Default</b> :  |       |  |                 |         |          |
| <b>Comments</b> :   |       |  |                 |         |          |
| Nr  | Label | Behaviour Description  | Constraints Ref | Verdict | Comments |
| 1   |       | +PS31_PREAMBLE   |                 |         |          |
| 2   |       | START T392   |                 |         |          |
| 3   | L1    | L?Status_Enquiry (N := 1, RSN := Status_Enquiry.link_integrity_verification.s end_seq) CANCEL T392 | SQ_V2(?,SSN)    | (P)     |          |
| 4   |       | +INCR_SN(SSN)  |                 |         |          |
| 5   |       | L!Status   | ST_V8(SSN,RSN)  |         |          |
| 6   |       | +P_POSTAMBLE   |                 |         |          |
| 7   |       | ?TIMEOUT T392  |                 | (F)     |          |
| 8   |       | +P_POSTAMBLE   |                 |         |          |
| 9   |       | +P_UNEXPECTED  |                 |         |          |
| 10  |       | GOTO L1  |                 |         |          |
| 11  |       | L?OTHERWISE  |                 | (F)     |          |
| 12  |       | +P_POSTAMBLE   |                 |         |          |
| <b>Detailed Comments</b> :  |       |  |                 |         |          |

| Test Case Dynamic Behaviour   |       |  |                                     |         |          |     |
|---|-------|--|-------------------------------------|---------|----------|-----|
| <b>Test Case Name</b> : PS3_09V   |       |  |                                     |         |          |     |
| <b>Group</b> : Periodic_Polling/General/  |       |  |                                     |         |          |     |
| <b>Purpose</b> : Verify that the IUT sends a STATUS ENQUIRY w/ link integrity verification only report type after an unanswered polling cycle prior to the N391 st polling cycle when the IUT is in state S3. The final IUT state is expected to be S3. StandardRef.: A.4.1 |       |  |                                     |         |          |     |
| <b>Configuration</b> :  |       |  |                                     |         |          |     |
| <b>Default</b> :  |       |  |                                     |         |          |     |
| <b>Comments</b> :   |       |  |                                     |         |          |     |
| Nr  | Label | Behaviour Description  | Constraints Ref                     | Verdict | Comments |     |
| 1   | L1    | +PS30_PREAMBLE   | SQ_V1(? ,SSN)<br><br>ST_V1(SSN,RSN) | (P)     |          |     |
| 2   |       | START T392   |                                     |         |          |     |
| 3   |       | L?Status_Enquiry (RSN := Status_Enquiry.link_integrity_verification.end_seq, N := N + 1) CANCEL T392 |                                     |         |          |     |
| 4   |       | +INCR_SN(SSN)  |                                     |         |          |     |
| 5   |       | L!Status   |                                     |         |          |     |
| 6   |       | +P_POSTAMBLE   |                                     |         |          |     |
| 7   |       | ?TIMEOUT T392  |                                     |         |          | (F) |
| 8   |       | +P_POSTAMBLE   |                                     |         |          |     |
| 9   |       | +P_UNEXPECTED  |                                     |         |          |     |
| 10  |       | GOTO L1  |                                     |         |          |     |
| 11  |       | L?OTHERWISE  |                                     |         |          | (F) |
| 12  |       | +P_POSTAMBLE   |                                     |         |          |     |
| <b>Detailed Comments</b> :  |       |  |                                     |         |          |     |

| Test Case Dynamic Behaviour   |       |                       |                 |         |          |
|---|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS3_11V   |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/General/  |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT continues periodic polling after receiving a STATUS w/ single PVC asynchronous status report type when the IUT is in state S3. The final IUT state is expected to be S3. Standard Ref.: A.1.1, A.4.1 |       |                       |                 |         |          |
| <b>Configuration</b> :  |       |                       |                 |         |          |
| <b>Default</b> :  |       |                       |                 |         |          |
| <b>Comments</b> :   |       |                       |                 |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1   |       | +PS30_PREAMBLE        | ST_V7           |         |          |
| 2   |       | L!Status              |                 |         |          |
| 3   |       | +P_VERIFICATION       |                 |         |          |
| 4   |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :  |       |                       |                 |         |          |

| Test Case Dynamic Behaviour   |       |                       |                        |         |          |
|---|-------|-----------------------|------------------------|---------|----------|
| <b>Test Case Name</b> : PS1_10N<br><b>Group</b> : Periodic_Polling/Error/<br><b>Purpose</b> : Verify that the IUT ignores a STATUS w/ full status type of report containing an invalid receive sequence number when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5.2<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                       |                        |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref        | Verdict | Comments |
| 1   |       | +PS1_PREAMBLE         |                        |         |          |
| 2   |       | (INVAL_SSN := SSN)    |                        |         |          |
| 3   |       | +INCR_SN(INVAL_SSN)   |                        |         |          |
| 4   |       | L!Status              | ST_V8(INVAL_SSN,'00'O) |         |          |
| 5   |       | +P_VERIFICATION       |                        |         |          |
| 6   |       | +P_POSTAMBLE          |                        |         |          |
| <b>Detailed Comments</b> :  |       |                       |                        |         |          |

| Test Case Dynamic Behaviour   |       |                       |                      |         |          |
|---|-------|-----------------------|----------------------|---------|----------|
| <b>Test Case Name</b> : PS1_12N<br><b>Group</b> : Periodic_Polling/Error/<br><b>Purpose</b> : Verify that the IUT ignores a STATUS message w/ a protocol discrimination error when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5, A.2.1<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                       |                      |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref      | Verdict | Comments |
| 1   |       | +PS1_PREAMBLE         |                      |         |          |
| 2   |       | (INVAL_SSN := SSN)    |                      |         |          |
| 3   |       | +INCR_SN(INVAL_SSN)   |                      |         |          |
| 4   |       | L!Status              | ST_N1(INVAL_SSN,RSN) |         |          |
| 5   |       | +P_VERIFICATION       |                      |         |          |
| 6   |       | +P_POSTAMBLE          |                      |         |          |
| <b>Detailed Comments</b> :  |       |                       |                      |         |          |

| Test Case Dynamic Behaviour   |       |                       |                 |         |          |
|---|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_13N   |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/Error/  |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT ignores a STATUS message w/ a message too short (protocol discriminator and call reference only) when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5 |       |                       |                 |         |          |
| <b>Configuration</b> :  |       |                       |                 |         |          |
| <b>Default</b> :  |       |                       |                 |         |          |
| <b>Comments</b> :   |       |                       |                 |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1   |       | +PS1_PREAMBLE         | ST_N2           |         |          |
| 2   |       | !Status               |                 |         |          |
| 3   |       | +P_VERIFICATION       |                 |         |          |
| 4   |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :  |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                       |         |          |
|--|-------|-----------------------|-----------------------|---------|----------|
| <b>Test Case Name</b> : PS1_14N  |       |                       |                       |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                       |         |          |
| <b>Purpose</b> : Verify that the IUT ignores a STATUS message w/ a call reference other than the dummy call reference when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5, A.2.2 |       |                       |                       |         |          |
| <b>Configuration</b> :   |       |                       |                       |         |          |
| <b>Default</b> :   |       |                       |                       |         |          |
| <b>Comments</b> :  |       |                       |                       |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref       | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         | ST_N3b(INVAL_SSN,RSN) |         |          |
| 2  |       | (INVAL_SSN := SSN)    |                       |         |          |
| 3  |       | +INCR_SN(INVAL_SSN)   |                       |         |          |
| 4  |       | !Status               |                       |         |          |
| 5  |       | +P_VERIFICATION       |                       |         |          |
| 6  |       | +P_POSTAMBLE          |                       |         |          |
| <b>Detailed Comments</b> :   |       |                       |                       |         |          |

| Test Case Dynamic Behaviour   |       |                       |                      |         |          |
|---|-------|-----------------------|----------------------|---------|----------|
| <b>Test Case Name</b> : PS1_15N   |       |                       |                      |         |          |
| <b>Group</b> : Periodic_Polling/Error/  |       |                       |                      |         |          |
| <b>Purpose</b> : Verify that the IUT ignores an undefined message when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5 |       |                       |                      |         |          |
| <b>Configuration</b> :  |       |                       |                      |         |          |
| <b>Default</b> :  |       |                       |                      |         |          |
| <b>Comments</b> :   |       |                       |                      |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref      | Verdict | Comments |
| 1   |       | +PS1_PREAMBLE         |                      |         |          |
| 2   |       | (INVAL_SSN := SSN)    |                      |         |          |
| 3   |       | +INCR_SN(INVAL_SSN)   |                      |         |          |
| 4   |       | L!Status              | ST_N4(INVAL_SSN,RSN) |         |          |
| 5   |       | +P_VERIFICATION       |                      |         |          |
| 6   |       | +P_POSTAMBLE          |                      |         |          |
| <b>Detailed Comments</b> :  |       |                       |                      |         |          |

| Test Case Dynamic Behaviour  |       |                       |                      |         |          |
|--|-------|-----------------------|----------------------|---------|----------|
| <b>Test Case Name</b> : PS1_16N  |       |                       |                      |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                      |         |          |
| <b>Purpose</b> : Verify that the IUT ignores a STATUS message with an invalid type of report when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5 |       |                       |                      |         |          |
| <b>Configuration</b> :   |       |                       |                      |         |          |
| <b>Default</b> :   |       |                       |                      |         |          |
| <b>Comments</b> :  |       |                       |                      |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref      | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         |                      |         |          |
| 2  |       | (INVAL_SSN := SSN)    |                      |         |          |
| 3  |       | +INCR_SN(INVAL_SSN)   |                      |         |          |
| 4  |       | L!Status              | ST_N6(INVAL_SSN,RSN) |         |          |
| 5  |       | +P_VERIFICATION       |                      |         |          |
| 6  |       | +P_POSTAMBLE          |                      |         |          |
| <b>Detailed Comments</b> :   |       |                       |                      |         |          |

| Test Case Dynamic Behaviour  |       |                       |                       |         |          |
|--|-------|-----------------------|-----------------------|---------|----------|
| <b>Test Case Name</b> : PS1_17N  |       |                       |                       |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                       |         |          |
| <b>Purpose</b> : Verify that the IUT ignores a STATUS message with a report type IE with an invalid content (length = 0) when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5 |       |                       |                       |         |          |
| <b>Configuration</b> :   |       |                       |                       |         |          |
| <b>Default</b> :   |       |                       |                       |         |          |
| <b>Comments</b> :  |       |                       |                       |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref       | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         | ST_N17(INVAL_SSN,RSN) |         |          |
| 2  |       | (INVAL_SSN := SSN)    |                       |         |          |
| 3  |       | +INCR_SN(INVAL_SSN)   |                       |         |          |
| 4  |       | L!Status              |                       |         |          |
| 5  |       | +P_VERIFICATION       |                       |         |          |
| 6  |       | +P_POSTAMBLE          |                       |         |          |
| <b>Detailed Comments</b> :   |       |                       |                       |         |          |

| Test Case Dynamic Behaviour  |       |                       |                    |         |          |
|--|-------|-----------------------|--------------------|---------|----------|
| <b>Test Case Name</b> : PS1_18N  |       |                       |                    |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                    |         |          |
| <b>Purpose</b> : Verify that the IUT ignores a STATUS message with a full status report type and containing a mandatory IE content error (LIV IE length = 1 and missing its receive sequence number) when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5 |       |                       |                    |         |          |
| <b>Configuration</b> :   |       |                       |                    |         |          |
| <b>Default</b> :   |       |                       |                    |         |          |
| <b>Comments</b> :  |       |                       |                    |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref    | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         | ST_N18b(INVAL_SSN) |         |          |
| 2  |       | (INVAL_SSN := SSN)    |                    |         |          |
| 3  |       | +INCR_SN(INVAL_SSN)   |                    |         |          |
| 4  |       | L!Status              |                    |         |          |
| 5  |       | +P_VERIFICATION       |                    |         |          |
| 6  |       | +P_POSTAMBLE          |                    |         |          |
| <b>Detailed Comments</b> :   |       |                       |                    |         |          |

| Test Case Dynamic Behaviour   |       |                       |                       |         |          |
|---|-------|-----------------------|-----------------------|---------|----------|
| <b>Test Case Name</b> : PS1_19N<br><b>Group</b> : Periodic_Polling/Error/<br><b>Purpose</b> : Verify that the IUT ignores a STATUS message with a full status report type and with a LIV IE with an invalid content (length error) when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                       |                       |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref       | Verdict | Comments |
| 1   |       | +PS1_PREAMBLE         |                       |         |          |
| 2   |       | (INVAL_SSN := SSN)    |                       |         |          |
| 3   |       | +INCR_SN(INVAL_SSN)   |                       |         |          |
| 4   |       | L!Status              | ST_N19(INVAL_SSN,RSN) |         |          |
| 5   |       | +P_VERIFICATION       |                       |         |          |
| 6   |       | +P_POSTAMBLE          |                       |         |          |
| <b>Detailed Comments</b> :  |       |                       |                       |         |          |

| Test Case Dynamic Behaviour   |       |                       |                       |         |          |
|---|-------|-----------------------|-----------------------|---------|----------|
| <b>Test Case Name</b> : PS1_20N<br><b>Group</b> : Periodic_Polling/Error/<br><b>Purpose</b> : Verify that the IUT ignores a STATUS message with a mandatory IE missing (reporttype IE) when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                       |                       |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref       | Verdict | Comments |
| 1   |       | +PS1_PREAMBLE         |                       |         |          |
| 2   |       | (INVAL_SSN := SSN)    |                       |         |          |
| 3   |       | +INCR_SN(INVAL_SSN)   |                       |         |          |
| 4   |       | L!Status              | ST_N12(INVAL_SSN,RSN) |         |          |
| 5   |       | +P_VERIFICATION       |                       |         |          |
| 6   |       | +P_POSTAMBLE          |                       |         |          |
| <b>Detailed Comments</b> :  |       |                       |                       |         |          |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_21N  |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT ignores a STATUS message with a mandatory IE missing (LIV IE) when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5 |       |                       |                 |         |          |
| <b>Configuration</b> :   |       |                       |                 |         |          |
| <b>Default</b> :   |       |                       |                 |         |          |
| <b>Comments</b> :  |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         | ST_N13b         |         |          |
| 2  |       | L!Status              |                 |         |          |
| 3  |       | +P_VERIFICATION       |                 |         |          |
| 4  |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Case Dynamic Behaviour   |       |                       |  |         |          |
|---|-------|-----------------------|--|---------|----------|
| <b>Test Case Name</b> : PS1_22N   |       |                       |  |         |          |
| <b>Group</b> : Periodic_Polling/Error/  |       |                       |  |         |          |
| <b>Purpose</b> : Verify that the IUT ignores or accepts a STATUS w/ full status report type and report type IE out of sequence when the IUT is in state S1. The final IUT state is expected to be S1 or S2 respectively. Standard Ref.: A.5 |       |                       |  |         |          |
| <b>Configuration</b> :  |       |                       |  |         |          |
| <b>Default</b> :  |       |                       |  |         |          |
| <b>Comments</b> :   |       |                       |  |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref                              | Verdict | Comments |
| 1   |       | +PS1_PREAMBLE         | ST_N26(SSN,RSN)<br><br>ST_N26(INVAL_SSN,RSN) |         |          |
| 2   |       | [IE_Out_Of_Seq]       |  |         |          |
| 3   |       | +INCR_SN(SSN)         |  |         |          |
| 4   |       | L!Status_RTos         |  |         |          |
| 5   |       | +P_VERIFICATION       |  |         |          |
| 6   |       | +P_POSTAMBLE          |  |         |          |
| 7   |       | [NOT (IE_Out_Of_Seq)] |  |         |          |
| 8   |       | (INVAL_SSN := SSN)    |  |         |          |
| 9   |       | +INCR_SN(INVAL_SSN)   |  |         |          |
| 10  |       | L!Status_RTos         |  |         |          |
| 11  |       | +P_VERIFICATION       |  |         |          |
| 12  |       | +P_POSTAMBLE          |  |         |          |
| <b>Detailed Comments</b> :  |       |                       |  |         |          |

| Test Case Dynamic Behaviour  |       |                       |                       |         |          |
|--|-------|-----------------------|-----------------------|---------|----------|
| <b>Test Case Name</b> : PS1_23N  |       |                       |                       |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                       |         |          |
| <b>Purpose</b> : Verify that the IUT ignores a STATUS w/ full status report and PVC status IE outof sequence when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5 |       |                       |                       |         |          |
| <b>Configuration</b> :   |       |                       |                       |         |          |
| <b>Default</b> :   |       |                       |                       |         |          |
| <b>Comments</b> :  |       |                       |                       |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref       | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         |                       |         |          |
| 2  |       | (INVAL_SSN := SSN)    |                       |         |          |
| 3  |       | +INCR_SN(INVAL_SSN)   |                       |         |          |
| 4  |       | L!Status              | ST_N16(INVAL_SSN,RSN) |         |          |
| 5  |       | +P_VERIFICATION       |                       |         |          |
| 6  |       | +P_POSTAMBLE          |                       |         |          |
| <b>Detailed Comments</b> :   |       |                       |                       |         |          |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_24N  |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report and an unrecognized IE when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5 |       |                       |                 |         |          |
| <b>Configuration</b> :   |       |                       |                 |         |          |
| <b>Default</b> :   |       |                       |                 |         |          |
| <b>Comments</b> :  |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         |                 |         |          |
| 2  |       | +INCR_SN(SSN)         |                 |         |          |
| 3  |       | L!Status_LIVrep       | ST_N9(SSN,RSN)  |         |          |
| 4  |       | +P_VERIFICATION       |                 |         |          |
| 5  |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_25N  |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report with a duplicated report type IE (the second report type is invalid) when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5 |       |                       |                 |         |          |
| <b>Configuration</b> :   |       |                       |                 |         |          |
| <b>Default</b> :   |       |                       |                 |         |          |
| <b>Comments</b> :  |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         |                 |         |          |
| 2  |       | +INCR_SN(SSN)         |                 |         |          |
| 3  |       | L!Status_RTrep        | ST_N7(SSN,RSN)  |         |          |
| 4  |       | +P_VERIFICATION       |                 |         |          |
| 5  |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Case Dynamic Behaviour   |       |                       |                 |         |          |
|---|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_26N   |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/Error/  |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report type with a duplicated LIV IE (the second LIV IE contains an invalid receive sequence number) when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5 |       |                       |                 |         |          |
| <b>Configuration</b> :  |       |                       |                 |         |          |
| <b>Default</b> :  |       |                       |                 |         |          |
| <b>Comments</b> :   |       |                       |                 |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1   |       | +PS1_PREAMBLE         |                 |         |          |
| 2   |       | +INCR_SN(SSN)         |                 |         |          |
| 3   |       | L!Status_LIVrep       | ST_N8(SSN,RSN)  |         |          |
| 4   |       | +P_VERIFICATION       |                 |         |          |
| 5   |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :  |       |                       |                 |         |          |

| Test Case Dynamic Behaviour   |       |                       |                 |         |          |
|---|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_27N   |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/Error/  |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT continues periodic polling after receiving a STATUS w/ single PVC asynchronous status report type containing two PVC status IE when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5 |       |                       |                 |         |          |
| <b>Configuration</b> :  |       |                       |                 |         |          |
| <b>Default</b> :  |       |                       |                 |         |          |
| <b>Comments</b> :   |       |                       |                 |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1   |       | +PS1_PREAMBLE         |                 |         |          |
| 2   |       | L!Status              | ST_N21          |         |          |
| 3   |       | +P_VERIFICATION       |                 |         |          |
| 4   |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :  |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_28N  |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report type containing conflicting information in duplicated DLCI when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5 |       |                       |                 |         |          |
| <b>Configuration</b> :   |       |                       |                 |         |          |
| <b>Default</b> :   |       |                       |                 |         |          |
| <b>Comments</b> :  |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         |                 |         |          |
| 2  |       | +INCR_SN(SSN)         |                 |         |          |
| 3  |       | L!Status              | ST_N11(SSN,RSN) |         |          |
| 4  |       | +P_VERIFICATION       |                 |         |          |
| 5  |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                       |         |          |
|--|-------|-----------------------|-----------------------|---------|----------|
| <b>Test Case Name</b> : PS1_29N  |       |                       |                       |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                       |         |          |
| <b>Purpose</b> : Verify that the IUT continues periodic polling after receiving a STATUS w/ single PVC asynchronous report type and an unrecognized IE (LIV) when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5 |       |                       |                       |         |          |
| <b>Configuration</b> :   |       |                       |                       |         |          |
| <b>Default</b> :   |       |                       |                       |         |          |
| <b>Comments</b> :  |       |                       |                       |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref       | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         |                       |         |          |
| 2  |       | (INVAL_SSN := SSN)    |                       |         |          |
| 3  |       | +INCR_SN(INVAL_SSN)   |                       |         |          |
| 4  |       | LIStatus              | ST_N22(INVAL_SSN,RSN) |         |          |
| 5  |       | +P_VERIFICATION       |                       |         |          |
| 6  |       | +P_POSTAMBLE          |                       |         |          |
| <b>Detailed Comments</b> :   |       |                       |                       |         |          |

| Test Case Dynamic Behaviour   |       |                       |                       |         |          |
|---|-------|-----------------------|-----------------------|---------|----------|
| <b>Test Case Name</b> : PS1_30N   |       |                       |                       |         |          |
| <b>Group</b> : Periodic_Polling/Error/  |       |                       |                       |         |          |
| <b>Purpose</b> : Verify that the IUT ignores a STATUS message with full status report type and also a PVC status IE with an invalid content (reserved DLCI) when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5 |       |                       |                       |         |          |
| <b>Configuration</b> :  |       |                       |                       |         |          |
| <b>Default</b> :  |       |                       |                       |         |          |
| <b>Comments</b> :   |       |                       |                       |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref       | Verdict | Comments |
| 1   |       | +PS1_PREAMBLE         |                       |         |          |
| 2   |       | (INVAL_SSN := SSN)    |                       |         |          |
| 3   |       | +INCR_SN(INVAL_SSN)   |                       |         |          |
| 4   |       | LIStatus              | ST_N24(INVAL_SSN,RSN) |         |          |
| 5   |       | +P_VERIFICATION       |                       |         |          |
| 6   |       | +P_POSTAMBLE          |                       |         |          |
| <b>Detailed Comments</b> :  |       |                       |                       |         |          |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_31N  |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS message with a full status report type and also a PVC status IE with an invalid content (spare bits of octet 4 set to 1) when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5 |       |                       |                 |         |          |
| <b>Configuration</b> :   |       |                       |                 |         |          |
| <b>Default</b> :   |       |                       |                 |         |          |
| <b>Comments</b> :  |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         |                 |         |          |
| 2  |       | +INCR_SN(SSN)         |                 |         |          |
| 3  |       | L!Status              | ST_N20(SSN,RSN) |         |          |
| 4  |       | +P_VERIFICATION       |                 |         |          |
| 5  |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_32N  |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report type containing PVC status IE identifying an unknown DLCI and the new bit set to 0 when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5 |       |                       |                 |         |          |
| <b>Configuration</b> :   |       |                       |                 |         |          |
| <b>Default</b> :   |       |                       |                 |         |          |
| <b>Comments</b> :  |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         |                 |         |          |
| 2  |       | +INCR_SN(SSN)         |                 |         |          |
| 3  |       | L!Status              | ST_N14(SSN,RSN) |         |          |
| 4  |       | +P_VERIFICATION       |                 |         |          |
| 5  |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_33N  |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report type containing PVC status IE identifying a DLCI in use and the new bit set to 1 when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5 |       |                       |                 |         |          |
| <b>Configuration</b> :   |       |                       |                 |         |          |
| <b>Default</b> :   |       |                       |                 |         |          |
| <b>Comments</b> :  |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         |                 |         |          |
| 2  |       | +INCR_SN(SSN)         |                 |         |          |
| 3  |       | L!Status              | ST_N15(SSN,RSN) |         |          |
| 4  |       | +P_VERIFICATION       |                 |         |          |
| 5  |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Case Dynamic Behaviour   |       |                       |                 |         |          |
|---|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_34N   |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/Error/  |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT ignores a STATUS w/ single PVC asynchronous type of report containing PVC status IE identifying an unknown DLCI and the new bit set to 0 when the IUT is in state S1. The final IUT state is expected to be S1. Standard Ref.: A.5 |       |                       |                 |         |          |
| <b>Configuration</b> :  |       |                       |                 |         |          |
| <b>Default</b> :  |       |                       |                 |         |          |
| <b>Comments</b> :   |       |                       |                 |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1   |       | +PS1_PREAMBLE         |                 |         |          |
| 2   |       | L!Status              | ST_N27          |         |          |
| 3   |       | +P_VERIFICATION       |                 |         |          |
| 4   |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :  |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_38N  |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report type containing PVC status IE with first extension bit set to 1 (last octet) when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5 |       |                       |                 |         |          |
| <b>Configuration</b> :   |       |                       |                 |         |          |
| <b>Default</b> :   |       |                       |                 |         |          |
| <b>Comments</b> :  |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS1_PREAMBLE         |                 |         |          |
| 2  |       | +INCR_SN(SSN)         |                 |         |          |
| 3  |       | L!Status              | ST_N28(SSN,RSN) |         |          |
| 4  |       | +P_VERIFICATION       |                 |         |          |
| 5  |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Case Dynamic Behaviour   |       |                       |                 |         |          |
|---|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS1_39N   |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/Error/  |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT accepts a STATUS w/ full status report type containing PVC status IE with third extension bit set to 0 (octet continues) when the IUT is in state S1. The final IUT state is expected to be S2. Standard Ref.: A.5 |       |                       |                 |         |          |
| <b>Configuration</b> :  |       |                       |                 |         |          |
| <b>Default</b> :  |       |                       |                 |         |          |
| <b>Comments</b> :   |       |                       |                 |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1   |       | +PS1_PREAMBLE         |                 |         |          |
| 2   |       | +INCR_SN(SSN)         |                 |         |          |
| 3   |       | L!Status              | ST_N29(SSN,RSN) |         |          |
| 4   |       | +P_VERIFICATION       |                 |         |          |
| 5   |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :  |       |                       |                 |         |          |

| Test Case Dynamic Behaviour   |       |                       |                      |         |          |
|---|-------|-----------------------|----------------------|---------|----------|
| <b>Test Case Name</b> : PS2_12N   |       |                       |                      |         |          |
| <b>Group</b> : Periodic_Polling/Error/  |       |                       |                      |         |          |
| <b>Purpose</b> : Verify that the IUT ignores an unsolicited STATUS message w/ a protocol discrimination error when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5 |       |                       |                      |         |          |
| <b>Configuration</b> :  |       |                       |                      |         |          |
| <b>Default</b> :  |       |                       |                      |         |          |
| <b>Comments</b> :   |       |                       |                      |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref      | Verdict | Comments |
| 1   |       | +PS20_PREAMBLE        | ST_N1(INVAL_SSN,RSN) |         |          |
| 2   |       | (INVAL_SSN := SSN)    |                      |         |          |
| 3   |       | +INCR_SN(INVAL_SSN)   |                      |         |          |
| 4   |       | !Status               |                      |         |          |
| 5   |       | +P_VERIFICATION       |                      |         |          |
| 6   |       | +P_POSTAMBLE          |                      |         |          |
| <b>Detailed Comments</b> :  |       |                       |                      |         |          |

| Test Case Dynamic Behaviour  |       |                       |                      |         |          |
|--|-------|-----------------------|----------------------|---------|----------|
| <b>Test Case Name</b> : PS2_15N  |       |                       |                      |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                      |         |          |
| <b>Purpose</b> : Verify that the IUT ignores an unrecognized message when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5 |       |                       |                      |         |          |
| <b>Configuration</b> :   |       |                       |                      |         |          |
| <b>Default</b> :   |       |                       |                      |         |          |
| <b>Comments</b> :  |       |                       |                      |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref      | Verdict | Comments |
| 1  |       | +PS20_PREAMBLE        | ST_N4(INVAL_SSN,RSN) |         |          |
| 2  |       | (INVAL_SSN := SSN)    |                      |         |          |
| 3  |       | +INCR_SN(INVAL_SSN)   |                      |         |          |
| 4  |       | !Status               |                      |         |          |
| 5  |       | +P_VERIFICATION       |                      |         |          |
| 6  |       | +P_POSTAMBLE          |                      |         |          |
| <b>Detailed Comments</b> :   |       |                       |                      |         |          |

| Test Case Dynamic Behaviour   |       |                       |                   |         |          |
|---|-------|-----------------------|-------------------|---------|----------|
| <b>Test Case Name</b> : PS2_18N<br><b>Group</b> : Periodic_Polling/Error/<br><b>Purpose</b> : Verify that the IUT ignores an unsolicited STATUS message w/ a mandatory IE content error (LIV IE length = 1 and missing its receive sequence number) when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.:A.5<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                       |                   |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref   | Verdict | Comments |
| 1   |       | +PS20_PREAMBLE        |                   |         |          |
| 2   |       | (INVAL_SSN := SSN)    |                   |         |          |
| 3   |       | +INCR_SN(INVAL_SSN)   |                   |         |          |
| 4   |       | L!Status              | ST_N18(INVAL_SSN) |         |          |
| 5   |       | +P_VERIFICATION       |                   |         |          |
| 6   |       | +P_POSTAMBLE          |                   |         |          |
| <b>Detailed Comments</b> :  |       |                       |                   |         |          |

| Test Case Dynamic Behaviour  |       |                       |                       |         |          |
|--|-------|-----------------------|-----------------------|---------|----------|
| <b>Test Case Name</b> : PS2_20N<br><b>Group</b> : Periodic_Polling/Error/<br><b>Purpose</b> : Verify that the IUT ignores an unsolicited STATUS message w/ a missing mandatory IE (report type) when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                       |                       |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref       | Verdict | Comments |
| 1  |       | +PS20_PREAMBLE        |                       |         |          |
| 2  |       | (INVAL_SSN := SSN)    |                       |         |          |
| 3  |       | +INCR_SN(INVAL_SSN)   |                       |         |          |
| 4  |       | L!Status              | ST_N12(INVAL_SSN,RSN) |         |          |
| 5  |       | +P_VERIFICATION       |                       |         |          |
| 6  |       | +P_POSTAMBLE          |                       |         |          |
| <b>Detailed Comments</b> :   |       |                       |                       |         |          |

| Test Case Dynamic Behaviour   |       |                       |                      |         |          |
|---|-------|-----------------------|----------------------|---------|----------|
| <b>Test Case Name</b> : PS2_24N   |       |                       |                      |         |          |
| <b>Group</b> : Periodic_Polling/Error/  |       |                       |                      |         |          |
| <b>Purpose</b> : Verify that the IUT ignores an unsolicited STATUS message w/ link integrity verification only report type and an unrecognized IE when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5 |       |                       |                      |         |          |
| <b>Configuration</b> :  |       |                       |                      |         |          |
| <b>Default</b> :  |       |                       |                      |         |          |
| <b>Comments</b> :   |       |                       |                      |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref      | Verdict | Comments |
| 1   |       | +PS20_PREAMBLE        |                      |         |          |
| 2   |       | (INVAL_SSN := SSN)    |                      |         |          |
| 3   |       | +INCR_SN(INVAL_SSN)   |                      |         |          |
| 4   |       | LIStatus_LIVrep       | ST_N9(INVAL_SSN,RSN) |         |          |
| 5   |       | +P_VERIFICATION       |                      |         |          |
| 6   |       | +P_POSTAMBLE          |                      |         |          |
| <b>Detailed Comments</b> :  |       |                       |                      |         |          |

| Test Case Dynamic Behaviour   |       |                       |                 |         |          |
|---|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS2_27N   |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/Error/  |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT continues periodic polling after receiving a STATUS w/ single PVC asynchronous status report type containing two PVC status IE when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5 |       |                       |                 |         |          |
| <b>Configuration</b> :  |       |                       |                 |         |          |
| <b>Default</b> :  |       |                       |                 |         |          |
| <b>Comments</b> :   |       |                       |                 |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1   |       | +PS20_PREAMBLE        |                 |         |          |
| 2   |       | LIStatus              | ST_N21          |         |          |
| 3   |       | +P_VERIFICATION       |                 |         |          |
| 4   |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :  |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                       |         |          |
|--|-------|-----------------------|-----------------------|---------|----------|
| <b>Test Case Name</b> : PS2_29N<br><b>Group</b> : Periodic_Polling/Error/<br><b>Purpose</b> : Verify that the IUT continues periodic polling after receiving a STATUS w/ single PVC asynchronous report type and an unrecognized IE (LIV) when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                       |                       |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref       | Verdict | Comments |
| 1  |       | +PS20_PREAMBLE        |                       |         |          |
| 2  |       | (INVAL_SSN := SSN)    |                       |         |          |
| 3  |       | +INCR_SN(INVAL_SSN)   |                       |         |          |
| 4  |       | L!Status              | ST_N22(INVAL_SSN,RSN) |         |          |
| 5  |       | +P_VERIFICATION       |                       |         |          |
| 6  |       | +P_POSTAMBLE          |                       |         |          |
| <b>Detailed Comments</b> :   |       |                       |                       |         |          |

| Test Case Dynamic Behaviour   |       |                       |                 |         |          |
|---|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS2_34N<br><b>Group</b> : Periodic_Polling/Error/<br><b>Purpose</b> : Verify that the IUT ignores a STATUS w/ single PVC asynchronous type of report containing PVC status IE identifying an unknown DLCI and the new bit set to 0 when the IUT is in state S2. The final IUT state is expected to be S2. Standard Ref.: A.5<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                       |                 |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1   |       | +PS20_PREAMBLE        |                 |         |          |
| 2   |       | L!Status              | ST_N27          |         |          |
| 3   |       | +P_VERIFICATION       |                 |         |          |
| 4   |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :  |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                        |         |          |
|--|-------|-----------------------|------------------------|---------|----------|
| <b>Test Case Name</b> : PS3_10N  |       |                       |                        |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                        |         |          |
| <b>Purpose</b> : Verify that the IUT ignores a STATUS w/ link integrity verification type of report and an invalid receive sequence number when the IUT is in state S3. The final IUT state is expected to be S3. Standard Ref.: A.5.2 |       |                       |                        |         |          |
| <b>Configuration</b> :   |       |                       |                        |         |          |
| <b>Default</b> :   |       |                       |                        |         |          |
| <b>Comments</b> :  |       |                       |                        |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref        | Verdict | Comments |
| 1  |       | +PS30_PREAMBLE        |                        |         |          |
| 2  |       | (INVAL_SSN := SSN)    |                        |         |          |
| 3  |       | +INCR_SN(INVAL_SSN)   |                        |         |          |
| 4  |       | L!Status              | ST_V1(INVAL_SSN,'00'O) |         |          |
| 5  |       | +P_VERIFICATION       |                        |         |          |
| 6  |       | +P_POSTAMBLE          |                        |         |          |
| <b>Detailed Comments</b> :   |       |                       |                        |         |          |

| Test Case Dynamic Behaviour  |       |                       |                      |         |          |
|--|-------|-----------------------|----------------------|---------|----------|
| <b>Test Case Name</b> : PS3_14N  |       |                       |                      |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                      |         |          |
| <b>Purpose</b> : Verify that the IUT ignores a STATUS message w/ a call reference other than the dummy call reference when the IUT is in state S3. The final IUT state is expected to be S3. Standard Ref.: A.5, A.5.2 |       |                       |                      |         |          |
| <b>Configuration</b> :   |       |                       |                      |         |          |
| <b>Default</b> :   |       |                       |                      |         |          |
| <b>Comments</b> :  |       |                       |                      |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref      | Verdict | Comments |
| 1  |       | +PS30_PREAMBLE        |                      |         |          |
| 2  |       | (INVAL_SSN := SSN)    |                      |         |          |
| 3  |       | +INCR_SN(INVAL_SSN)   |                      |         |          |
| 4  |       | L!Status              | ST_N3(INVAL_SSN,RSN) |         |          |
| 5  |       | +P_VERIFICATION       |                      |         |          |
| 6  |       | +P_POSTAMBLE          |                      |         |          |
| <b>Detailed Comments</b> :   |       |                       |                      |         |          |

| Test Case Dynamic Behaviour   |       |                       |                   |         |          |
|---|-------|-----------------------|-------------------|---------|----------|
| <b>Test Case Name</b> : PS3_18N   |       |                       |                   |         |          |
| <b>Group</b> : Periodic_Polling/Error/  |       |                       |                   |         |          |
| <b>Purpose</b> : Verify that the IUT ignores a STATUS message with a link integrity verification report type and containing a mandatory IE content error (LIV IE length = 1 and no receive sequence number) when the IUT is in state S3. The final IUT state is expected to be S3. Standard Ref.: A.5 |       |                       |                   |         |          |
| <b>Configuration</b> :  |       |                       |                   |         |          |
| <b>Default</b> :  |       |                       |                   |         |          |
| <b>Comments</b> :   |       |                       |                   |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref   | Verdict | Comments |
| 1   |       | +PS30_PREAMBLE        |                   |         |          |
| 2   |       | (INVAL_SSN := SSN)    |                   |         |          |
| 3   |       | +INCR_SN(INVAL_SSN)   |                   |         |          |
| 4   |       | L!Status              | ST_N18(INVAL_SSN) |         |          |
| 5   |       | +P_VERIFICATION       |                   |         |          |
| 6   |       | +P_POSTAMBLE          |                   |         |          |
| <b>Detailed Comments</b> :  |       |                       |                   |         |          |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : PS3_21N  |       |                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/Error/   |       |                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT ignores a STATUS message with a mandatory IE missing (LIV IE) when the IUT is in state S3. The final IUT state is expected to be S3. Standard Ref.: A.5 |       |                       |                 |         |          |
| <b>Configuration</b> :   |       |                       |                 |         |          |
| <b>Default</b> :   |       |                       |                 |         |          |
| <b>Comments</b> :  |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS30_PREAMBLE        |                 |         |          |
| 2  |       | L!Status              | ST_N13          |         |          |
| 3  |       | +P_VERIFICATION       |                 |         |          |
| 4  |       | +P_POSTAMBLE          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Case Dynamic Behaviour  |       |                       |                       |         |          |
|--|-------|-----------------------|-----------------------|---------|----------|
| <b>Test Case Name</b> : PS3_29N<br><b>Group</b> : Periodic_Polling/Error/<br><b>Purpose</b> : Verify that the IUT continues periodic polling after receiving a STATUS w/ single PVC asynchronous report type and an unrecognized IE (LIV) when the IUT is in state S3. The final IUT state is expected to be S3. Standard Ref.: A.5<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                       |                       |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref       | Verdict | Comments |
| 1  |       | +PS30_PREAMBLE        |                       |         |          |
| 2  |       | (INVAL_SSN := SSN)    |                       |         |          |
| 3  |       | +INCR_SN(INVAL_SSN)   |                       |         |          |
| 4  |       | L!Status              | ST_N22(INVAL_SSN,RSN) |         |          |
| 5  |       | +P_VERIFICATION       |                       |         |          |
| 6  |       | +P_POSTAMBLE          |                       |         |          |
| <b>Detailed Comments</b> :   |       |                       |                       |         |          |

| Test Case Dynamic Behaviour  |       |   |                 |         |                |
|--|-------|---|-----------------|---------|----------------|
| <b>Test Case Name</b> : P_35V  |       |   |                 |         |                |
| <b>Group</b> : Periodic_Polling/System/  |       |   |                 |         |                |
| <b>Purpose</b> : Verify that the IUT's T391 between successive link integrity verifications is within its tolerance value.<br>Standard Ref.: A.4.1 |       |   |                 |         |                |
| <b>Configuration</b> :   |       |   |                 |         |                |
| <b>Default</b> :   |       |   |                 |         |                |
| <b>Comments</b> :  |       |   |                 |         |                |
| Nr   | Label | Behaviour Description   | Constraints Ref | Verdict | Comments       |
| 1  |       | +PS0_PREAMBLE   |                 |         |                |
| 2  |       | START T (T391value – DELTA)   |                 |         |                |
| 3  | L1    | ?TIMEOUT T  |                 |         |                |
| 4  |       | START T (DELTA + DELTA)   |                 |         |                |
| 5  | L2    | L?Status_Enquiry (RSN :=<br>Status_Enquiry.link_integrity_verificati<br>on.send_seq, N := 1) CANCEL T       | SQ_V2(? ,SSN)   | (P)     | RT=Full status |
| 6  |       | +INCR_SN(SSN)   |                 |         |                |
| 7  |       | L!Status  | ST_V8(SSN,RSN)  |         |                |
| 8  |       | +P_POSTAMBLE  |                 |         |                |
| 9  |       | L?Status_Enquiry [N < N391] (RSN :=<br>Status_Enquiry.link_integrity_verificati<br>on.send_seq, N := N + 1) | SQ_V1(? ,SSN)   | (P)     | RT=LIV only    |
| 10   |       | +INCR_SN(SSN)   |                 |         |                |
| 11   |       | L!Status  | ST_V1(SSN,RSN)  |         |                |
| 12   |       | +P_POSTAMBLE  |                 |         |                |
| 13   |       | +P_UNEXPECTED   |                 |         |                |
| 14   |       | GOTO L2   |                 |         |                |
| 15   |       | ?TIMEOUT T  |                 | (F)     |                |
| 16   |       | +P_POSTAMBLE  |                 |         |                |
| 17   |       | L?OTHERWISE   |                 | (F)     |                |
| 18   |       | +P_POSTAMBLE  |                 |         |                |
| 19   |       | +P_UNEXPECTED   |                 |         |                |
| 20   |       | GOTO L1   |                 |         |                |
| 21   |       | L?OTHERWISE   |                 | (F)     |                |
| 22   |       | +P_POSTAMBLE  |                 |         |                |
| <b>Detailed Comments</b> :   |       |   |                 |         |                |

| Test Case Dynamic Behaviour   |       |                                      |                 |         |          |
|---|-------|--------------------------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : P_36V   |       |                                      |                 |         |          |
| <b>Group</b> : Periodic_Polling/System/   |       |                                      |                 |         |          |
| <b>Purpose</b> : Verify that the IUT increments the send sequence counter in the user-to-network direction modulo 256 but skips 0. Standard Ref.: A.4.2 |       |                                      |                 |         |          |
| <b>Configuration</b> :  |       |                                      |                 |         |          |
| <b>Default</b> :  |       |                                      |                 |         |          |
| <b>Comments</b> :   |       |                                      |                 |         |          |
| Nr  | Label | Behaviour Description                | Constraints Ref | Verdict | Comments |
| 1   |       | +PS20_PREAMBLE                       |                 |         |          |
| 2   |       | REPEAT P_POLLING UNTIL [RSN = 'FF'0] |                 |         |          |
| 3   |       | +P_POLLING                           |                 |         |          |
| 4   |       | [RSN = '00'0]                        |                 | (F)     |          |
| 5   |       | +P_POSTAMBLE                         |                 |         |          |
| 6   |       | [NOT (RSN = '00'0)]                  |                 | (P)     |          |
| 7   |       | +P_POSTAMBLE                         |                 |         |          |
| <b>Detailed Comments</b> :  |       |                                      |                 |         |          |

| Test Case Dynamic Behaviour  |       |                                       |                 |         |          |
|--|-------|---------------------------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : P_37V  |       |                                       |                 |         |          |
| <b>Group</b> : Periodic_Polling/System/  |       |                                       |                 |         |          |
| <b>Purpose</b> : Verify that the IUT continues link verification procedures to detect service restoration following the detection of a service affecting condition at the user-network interface. Standard Ref.: A.5.2 |       |                                       |                 |         |          |
| <b>Configuration</b> :   |       |                                       |                 |         |          |
| <b>Default</b> :   |       |                                       |                 |         |          |
| <b>Comments</b> :  |       |                                       |                 |         |          |
| Nr   | Label | Behaviour Description                 | Constraints Ref | Verdict | Comments |
| 1  |       | +PS20_PREAMBLE                        |                 |         |          |
| 2  |       | (Event := 0)                          |                 |         |          |
| 3  |       | REPEAT P_TIMEOUT UNTIL [Event = N393] |                 |         |          |
| 4  |       | +P_TIMEOUT                            |                 |         |          |
| 5  |       | [TRUE]                                |                 | (P)     |          |
| 6  |       | +P_POSTAMBLE                          |                 |         |          |
| <b>Detailed Comments</b> :   |       |                                       |                 |         |          |

| Test Case Dynamic Behaviour   |       |  |                 |         |                |
|---|-------|--|-----------------|---------|----------------|
| <b>Test Case Name</b> : B_01V   |       |  |                 |         |                |
| <b>Group</b> : Bidirectional/General/   |       |  |                 |         |                |
| <b>Purpose</b> : Verify that the IUT responds to a STATUS ENQUIRY w/ link integrity verification only report type with a STATUS message. Standard Ref.: A.6 |       |  |                 |         |                |
| <b>Configuration</b> :  |       |  |                 |         |                |
| <b>Default</b> :  |       |  |                 |         |                |
| <b>Comments</b> :   |       |  |                 |         |                |
| Nr  | Label | Behaviour Description  | Constraints Ref | Verdict | Comments       |
| 1   |       | +B1_PREAMBLE   |                 |         |                |
| 2   |       | +INCR_SN(SSN)  |                 |         |                |
| 3   |       | L!Status_Enquiry (N := N + 1)  | SQ_V1(SSN,RSN)  |         |                |
| 4   |       | START T391   |                 |         |                |
| 5   | L1    | L?Status (RSN :=<br>Status.link_integrity_verification.send_<br>seq) | ST_V1(?;SSN)    | (P)     | RT=LIV only    |
| 6   |       | +B_T391TIMEOUT   |                 |         |                |
| 7   |       | +B_POSTAMBLE   |                 |         |                |
| 8   |       | L?Status (RSN :=<br>Status.link_integrity_verification.send_<br>seq) | ST_V9(?;SSN)    | (P)     | RT=Full status |
| 9   |       | +B_T391TIMEOUT   |                 |         |                |
| 10  |       | +B_POSTAMBLE   |                 |         |                |
| 11  |       | +B_UNEXPECTED  |                 |         |                |
| 12  |       | GOTO L1  |                 |         |                |
| 13  |       | ?TIMEOUT T391  |                 | (F)     |                |
| 14  |       | +B_POSTAMBLE   |                 |         |                |
| 15  |       | L?OTHERWISE  |                 | (F)     |                |
| 16  |       | +B_POSTAMBLE   |                 |         |                |
| <b>Detailed Comments</b> :  |       |  |                 |         |                |

| Test Case Dynamic Behaviour  |       |   |                 |         |                |     |
|--|-------|---|-----------------|---------|----------------|-----|
| <b>Test Case Name</b> : B_02V  |       |   |                 |         |                |     |
| <b>Group</b> : Bidirectional/General/  |       |   |                 |         |                |     |
| <b>Purpose</b> : Verify that the IUT responds to a STATUS ENQUIRY w/ full status report type with a STATUS message w/ full status report. Standard Ref.: A.6 |       |   |                 |         |                |     |
| <b>Configuration</b> :   |       |   |                 |         |                |     |
| <b>Default</b> :   |       |   |                 |         |                |     |
| <b>Comments</b> :  |       |   |                 |         |                |     |
| Nr   | Label | Behaviour Description   | Constraints Ref | Verdict | Comments       |     |
| 1  | L1    | +B0_PREAMBLE  | SQ_V2(SSN,RSN)  | (P)     | RT=Full status |     |
| 2  |       | +INCR_SN(SSN)   |                 |         |                |     |
| 3  |       | L!Status_Enquiry (N := 1)                                     |                 |         |                |     |
| 4  |       | START T391  |                 |         |                |     |
| 5  |       | L?Status (RSN := Status.link_integrity_verification.send_seq) |                 |         |                |     |
| 6  |       | +B_T391TIMEOUT  |                 |         |                |     |
| 7  |       | +B_POSTAMBLE  |                 |         |                |     |
| 8  |       | +B_UNEXPECTED   |                 |         |                |     |
| 9  |       | GOTO L1   |                 |         |                |     |
| 10   |       | ?TIMEOUT T391   |                 |         |                | (F) |
| 11   |       | +B_POSTAMBLE  |                 |         |                |     |
| 12   |       | L?OTHERWISE   |                 |         |                | (F) |
| 13   |       | +B_POSTAMBLE  |                 |         |                |     |
| <b>Detailed Comments</b> :   |       |   |                 |         |                |     |

| Test Case Dynamic Behaviour  |       |                       |                 |         |          |     |
|--|-------|-----------------------|-----------------|---------|----------|-----|
| <b>Test Case Name</b> : B_03V  |       |                       |                 |         |          |     |
| <b>Group</b> : Bidirectional/General/  |       |                       |                 |         |          |     |
| <b>Purpose</b> : Verify that the IUT does not send an unsolicited STATUS message. Standard Ref.: A.6 |       |                       |                 |         |          |     |
| <b>Configuration</b> :   |       |                       |                 |         |          |     |
| <b>Default</b> :   |       |                       |                 |         |          |     |
| <b>Comments</b> :  |       |                       |                 |         |          |     |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |     |
| 1  | L1    | +B0_PREAMBLE          |                 | (P)     |          |     |
| 2  |       | (N := N + 1)          |                 |         |          |     |
| 3  |       | START T391            |                 |         |          |     |
| 4  |       | ?TIMEOUT T391         |                 |         |          |     |
| 5  |       | +B_POSTAMBLE          |                 |         |          |     |
| 6  |       | +B_UNEXPECTED         |                 |         |          |     |
| 7  |       | GOTO L1               |                 |         |          |     |
| 8  |       | L?OTHERWISE           |                 |         |          | (F) |
| 9  |       | +B_POSTAMBLE          |                 |         |          |     |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |     |

| Test Case Dynamic Behaviour  |       |  |                                    |         |          |
|--|-------|--|------------------------------------|---------|----------|
| <b>Test Case Name</b> : B_17V<br><b>Group</b> : Bidirectional/General/<br><b>Purpose</b> : Verify that the IUT does not clear the new bit in the PVC status IE until it receives a STATUS ENQUIRY message containing a receive sequence number equal to the send sequence counter (i.e. the send sequence number transmitted in the lastSTATUS message). Standard Ref.: A.4.3.2<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |  |                                    |         |          |
| Nr   | Label | Behaviour Description  | Constraints Ref                    | Verdict | Comments |
| 1  |       | +B0_PREAMBLE   |                                    |         |          |
| 2  |       | +SET_ONE_PVC   |                                    |         |          |
| 3  |       | +INCR_SN(SSN)  |                                    |         |          |
| 4  |       | +INCR_SN(RSN)  |                                    |         |          |
| 5  |       | L!Status_Enquiry(N := 1)                                     | SQ_V2(SSN, RSN)                    |         | (1)      |
| 6  |       | START T391   |                                    |         |          |
| 7  | L1    | L?Status(RSN := Status.link_integrity_verification.send_seq) | ST_V11(?, SSN, D, new)             |         |          |
| 8  |       | +B_T391TIMEOUT   |                                    |         |          |
| 9  |       | +INCR_SN(SSN)  |                                    |         |          |
| 10   |       | L!Status_Enquiry(N := 1)                                     | SQ_V2(SSN, RSN)                    |         | (2)      |
| 11   |       | START T391   |                                    |         |          |
| 12   | L2    | L?Status(RSN := Status.link_integrity_verification.send_seq) | ST_V11(?, SSN, D, already_present) | (P)     |          |
| 13   |       | +B_T391TIMEOUT   |                                    |         |          |
| 14   |       | +B_POSTAMBLE   |                                    |         |          |
| 15   |       | +B_UNEXPECTED  |                                    |         |          |
| 16   |       | GOTO L2  |                                    |         |          |
| 17   |       | ?TIMEOUT T391  |                                    | (F)     |          |
| 18   |       | +B_POSTAMBLE   |                                    |         |          |
| 19   |       | L?OTHERWISE  |                                    | (F)     |          |
| 20   |       | +B_T391TIMEOUT   |                                    |         |          |
| 21   |       | +B_POSTAMBLE   |                                    |         |          |
| 22   |       | +B_UNEXPECTED  |                                    |         |          |
| 23   |       | GOTO L1  |                                    |         |          |
| 24   |       | ?TIMEOUT T391  |                                    | (F)     |          |
| 25   |       | +B_POSTAMBLE   |                                    |         |          |
| 26   |       | L?OTHERWISE  |                                    | (F)     |          |
| 27   |       | +B_T391TIMEOUT   |                                    |         |          |
| 28   |       | +B_POSTAMBLE   |                                    |         |          |
| <b>Detailed Comments</b> : (1) STATUS ENQUIRY with full status report and an invalid receive sequence number; the IUT should not clear the new bit<br>(2) STATUS ENQUIRY with full status report and a valid receive sequence number; the IUT should clear the new bit   |       |  |                                    |         |          |

| Test Case Dynamic Behaviour   |       |   |                                       |         |          |
|---|-------|---|---------------------------------------|---------|----------|
| <b>Test Case Name</b> : B_18V   |       |   |                                       |         |          |
| <b>Group</b> : Bidirectional/General/   |       |   |                                       |         |          |
| <b>Purpose</b> : Verify that, after a PVC is deleted from the IUT, the STATUS message sent by the IUT no longer contains the PVC status IE for that PVC. Standard Ref.: A.4.1.5   |       |   |                                       |         |          |
| <b>Configuration</b> :  |       |   |                                       |         |          |
| <b>Default</b> :  |       |   |                                       |         |          |
| <b>Comments</b> :   |       |   |                                       |         |          |
| Nr  | Label | Behaviour Description   | Constraints Ref                       | Verdict | Comments |
| 1   |       | +B0_PREAMBLE  |                                       |         |          |
| 2   |       | +SET_ONE_PVC  |                                       |         |          |
| 3   |       | <IUT!Mgmt>  | PVC_DELETE                            |         |          |
| 4   |       | START Topr  |                                       |         |          |
| 5   | L1    | +INCR_SN(SSN)   |                                       |         |          |
| 6   |       | L!Status_Enquiry(N := 1)  | SQ_V2(SSN, RSN)                       |         |          |
| 7   |       | START T391  |                                       |         |          |
| 8   | L2    | L?Status(RSN :=<br>Status.link_integrity_verification.s<br>end_seq) CANCEL Topr | ST_V13(?, SSN)                        | (P)     | (1)      |
| 9   |       | +B_T391TIMEOUT  |                                       |         |          |
| 10  |       | +B_POSTAMBLE  |                                       |         |          |
| 11  |       | L?Status(RSN :=<br>Status.link_integrity_verification.s<br>end_seq)             | ST_V11(?, SSN, D,<br>already_present) |         | (2)      |
| 12  |       | <IUT!Mgmt>  | PVC_DELETE                            |         |          |
| 13  |       | +B_T391ToprTIMEOUT  |                                       |         |          |
| 14  |       | GOTO L1   |                                       |         |          |
| 15  |       | +B_UNEXPECTED   |                                       |         |          |
| 16  |       | <IUT!Mgmt>  | PVC_DELETE                            |         |          |
| 17  |       | GOTO L2   |                                       |         |          |
| 18  |       | ?TIMEOUT T391   |                                       | (F)     |          |
| 19  |       | +B_POSTAMBLE  |                                       |         |          |
| 20  |       | ?TIMEOUT Topr   |                                       | (F)     |          |
| 21  |       | +B_T391TIMEOUT  |                                       |         |          |
| 22  |       | +B_POSTAMBLE  |                                       |         |          |
| 23  |       | L?OTHERWISE   |                                       | (F)     |          |
| 24  |       | +B_T391TIMEOUT  |                                       |         |          |
| 25  |       | +B_POSTAMBLE  |                                       |         |          |
| <b>Detailed Comments</b> : (1) STATUS message with full status report type and no PVC status IE<br>(2) STATUS message with full status report type and a PVC status IE for DLCI D |       |   |                                       |         |          |

| Test Case Dynamic Behaviour  |       |  |                 |         |          |
|--|-------|--|-----------------|---------|----------|
| <b>Test Case Name</b> : B_20V  |       |  |                 |         |          |
| <b>Group</b> : Bidirectional/General/  |       |  |                 |         |          |
| <b>Purpose</b> : Verify that when a new PVC is configured, the IUT sets the new bit to 1 in the PVC status IE for that PVC in a full status STATUS message. Standard Ref.: A.4.3.1 |       |  |                 |         |          |
| <b>Configuration</b> :   |       |  |                 |         |          |
| <b>Default</b> :   |       |  |                 |         |          |
| <b>Comments</b> :  |       |  |                 |         |          |
| Nr   | Label | Behaviour Description  | Constraints Ref | Verdict | Comments |
| 1  |       | +B0_PREAMBLE   |                 |         |          |
| 2  |       | +CONFIG_PVC_SEGMENT  |                 |         |          |
| 3  |       | START Topr   |                 |         |          |
| 4  | L1    | +INCR_SN(SSN)  |                 |         |          |
| 5  |       | L!Status_Enquiry(N := 1)   | SQ_V2(SSN, RSN) |         |          |
| 6  |       | START T391   |                 |         |          |
| 7  | L2    | L?Status(RSN := Status.link_integrity_verification.se<br>nd_seq) CANCEL Topr | ST_V12(?, SSN)  | (P)     |          |
| 8  |       | +B_T391TIMEOUT   |                 |         |          |
| 9  |       | +B_POSTAMBLE   |                 |         |          |
| 10   |       | L?Status(RSN := Status.link_integrity_verification.se<br>nd_seq)             | ST_V9(?, SSN)   |         |          |
| 11   |       | +CONFIG_PVC_SEGMENT  |                 |         |          |
| 12   |       | +B_T391ToprTIMEOUT   |                 |         |          |
| 13   |       | GOTO L1  |                 |         |          |
| 14   |       | ?TIMEOUT T391  |                 | (F)     |          |
| 15   |       | +B_POSTAMBLE   |                 |         |          |
| 16   |       | ?TIMEOUT Topr  |                 | (F)     |          |
| 17   |       | +B_T391TIMEOUT   |                 |         |          |
| 18   |       | +B_POSTAMBLE   |                 |         |          |
| 19   |       | +B_UNEXPECTED  |                 |         |          |
| 20   |       | +CONFIG_PVC_SEGMENT  |                 |         |          |
| 21   |       | GOTO L2  |                 |         |          |
| 22   |       | L?OTHERWISE  |                 | (F)     |          |
| 23   |       | +B_T391TIMEOUT   |                 |         |          |
| 24   |       | +B_POSTAMBLE   |                 |         |          |
|  |       | CONFIG_PVC_SEGMENT   |                 |         |          |
| 25   |       | <IUT!Mgmt>   | PVC_CLEAR       |         |          |
| 26   |       | <IUT!Mgmt>   | PVC_ADD         |         |          |
| <b>Detailed Comments</b> :   |       |  |                 |         |          |

| Test Case Dynamic Behaviour  |       |   |                                |         |          |
|--|-------|---|--------------------------------|---------|----------|
| <b>Test Case Name</b> : B_21V  |       |   |                                |         |          |
| <b>Group</b> : Bidirectional/General/  |       |   |                                |         |          |
| <b>Purpose</b> : Verify that the IUT detects the non-receipt of the last N392 STATUS ENQUIRY messages and sets the active bit to 0 for the affected PVC's. Standard Ref.: A.4.4, A.5.1 |       |   |                                |         |          |
| <b>Configuration</b> :   |       |   |                                |         |          |
| <b>Default</b> :   |       |   |                                |         |          |
| <b>Comments</b> :  |       |   |                                |         |          |
| Nr   | Label | Behaviour Description   | Constraints Ref                | Verdict | Comments |
| 1  | L1    | +SET_ONE_PVC_RMT  |                                |         |          |
| 2  |       | (Event := 0)  |                                |         |          |
| 3  |       | [NOT(Event = N392B)]  |                                |         |          |
| 4  |       | (Event := Event + 1)  |                                |         |          |
| 5  |       | +INCR_SN(SSN)   |                                |         |          |
| 6  |       | L!Status_Enquiry  | SQ_V2(SSN, RSN)                |         |          |
| 7  |       | START T391  |                                |         |          |
| 8  | L2    | L?Status(RSN :=<br>Status.link_integrity_verification.s<br>end_seq) | ST_V14(?, SSN, D, active)      |         |          |
| 9  |       | +B_T391TIMEOUT  |                                |         |          |
| 10   |       | GOTO L1   |                                |         |          |
| 11   |       | +B_UNEXPECTED_RMT   |                                |         |          |
| 12   |       | GOTO L2   |                                |         |          |
| 13   |       | +INV_BEH  |                                |         |          |
| 14   |       | [Event = N392B]   |                                |         |          |
| 15   |       | +INCR_SN(SSN)   |                                |         |          |
| 16   |       | L!Status_Enquiry(N := 1)  | SQ_V2(SSN, RSN)                |         |          |
| 17   |       | START T391  |                                |         |          |
| 18   | L3    | L?Status(RSN :=<br>Status.link_integrity_verification.se<br>nd_seq) | ST_V14(?, SSN, D,<br>inactive) | (P)     |          |
| 19   |       | +B_T391TIMEOUT_RMT  |                                |         |          |
| 20   |       | +B_POSTAMBLE_RMT  |                                |         |          |
| 21   |       | +B_UNEXPECTED_RMT   |                                |         |          |
| 22   |       | GOTO L3   |                                |         |          |
| 23   |       | +INV_BEH  |                                |         |          |
| 24   |       | INV_BEH<br>?TIMEOUT T391  |                                | (F)     |          |
| 25   |       | +B_POSTAMBLE_RMT  |                                |         |          |
| 26   |       | L?OTHERWISE   |                                | (F)     |          |
| 27   |       | +B_T391TIMEOUT_RMT  |                                |         |          |
| 28   |       | +B_POSTAMBLE_RMT  |                                |         |          |
| 29   |       | LRMT?OTHERWISE  |                                | (F)     |          |
| 30   |       | +B_T391TIMEOUT_RMT  |                                |         |          |
| 31   |       | +B_POSTAMBLE_RMT  |                                |         |          |
| <b>Detailed Comments</b> :   |       |   |                                |         |          |

| Test Case Dynamic Behaviour   |       |   |                                  |         |          |
|---|-------|---|----------------------------------|---------|----------|
| <b>Test Case Name</b> : B_22V   |       |   |                                  |         |          |
| <b>Group</b> : Bidirectional/General/   |       |   |                                  |         |          |
| <b>Purpose</b> : Verify that the IUT detects the receipt of the last N392 STATUS ENQUIRY messages with invalid receive sequence number and sets the active bit to 0 for the affected PVC's. Standard Ref.: A.4.4, A.5.1 |       |   |                                  |         |          |
| <b>Configuration</b> :  |       |   |                                  |         |          |
| <b>Default</b> :  |       |   |                                  |         |          |
| <b>Comments</b> :   |       |   |                                  |         |          |
| Nr  | Label | Behaviour Description   | Constraints Ref                  | Verdict | Comments |
| 1   |       | +SET_ONE_PVC_RMT  |                                  |         |          |
| 2   |       | (Event := 0)  |                                  |         |          |
| 3   | L1    | [NOT(Event = N392B)]  |                                  |         |          |
| 4   |       | (Event := Event + 1)  |                                  |         |          |
| 5   |       | +INCR_SN(SSN)   |                                  |         |          |
| 6   |       | L!Status_Enquiry  | SQ_V2(SSN, RSN)                  |         |          |
| 7   |       | +INCR_SN(SSN_RMT)   |                                  |         |          |
| 8   |       | +INCR_SN(RSN_RMT)   |                                  |         |          |
| 9   |       | LRMT!Status_Enquiry   | SQ_V2(SSN_RMT, RSN_RMT)          |         | (1)      |
| 10  |       | START T391  |                                  |         |          |
| 11  | L2    | L?Status(RSN := Status.link_integrity_verification.send_seq)        | ST_V14(?, SSN, D, active)        |         |          |
| 12  | L3    | LRMT?Status(RSN_RMT := Status.link_integrity_verification.send_seq) | ST_V14(?, SSN_RMT, DRMT, active) |         |          |
| 13  |       | +B_T391TIMEOUT  |                                  |         |          |
| 14  |       | GOTO L1   |                                  |         |          |
| 15  |       | +B_UNEXPECTED_RMT   |                                  |         |          |
| 16  |       | GOTO L3   |                                  |         |          |
| 17  |       | +INV_BEH  |                                  |         |          |
| 18  |       | LRMT?Status(RSN := Status.link_integrity_verification.send_seq)     | ST_V14(?, SSN_RMT, DRMT, active) |         |          |
| 19  | L4    | L?Status(RSN_RMT := Status.link_integrity_verification.send_seq)    | ST_V14(?, SSN, D, active)        |         |          |
| 20  |       | +B_T391TIMEOUT  |                                  |         |          |
| 21  |       | GOTO L1   |                                  |         |          |
| 22  |       | +B_UNEXPECTED_RMT   |                                  |         |          |
| 23  |       | GOTO L4   |                                  |         |          |
| 24  |       | +INV_BEH  |                                  |         |          |
| 25  |       | +B_UNEXPECTED_RMT   |                                  |         |          |
| 26  |       | GOTO L2   |                                  |         |          |
| 27  |       | +INV_BEH  |                                  |         |          |
| 28  |       | [Event = N392B]   |                                  |         |          |
| 29  |       | +INCR_SN(SSN)   |                                  |         |          |
| 30  |       | L!Status_Enquiry(N := 1)  | SQ_V2(SSN, RSN)                  |         |          |
| 31  |       | START T391  |                                  |         |          |

Continued on next page

Continued from previous page

| Test Case Dynamic Behaviour   |       |   |                                |         |          |
|---|-------|---|--------------------------------|---------|----------|
| Nr  | Label | Behaviour Description   | Constraints Ref                | Verdict | Comments |
| 32  | L5    | L?Status(RSN :=<br>Status.link_integrity_verification.se<br>nd_seq) | ST_V14(?, SSN, D,<br>inactive) | (P)     |          |
| 33  |       | +B_T391TIMEOUT_RMT  |                                |         |          |
| 34  |       | +B_POSTAMBLE_RMT  |                                |         |          |
| 35  |       | +B_UNEXPECTED_RMT   |                                |         |          |
| 36  |       | GOTO L5   |                                |         |          |
| 37  |       | +INV_BEH  |                                |         |          |
|   |       | INV_BEH   |                                |         |          |
| 38  |       | ?TIMEOUT T391   |                                | (F)     |          |
| 39  |       | +B_POSTAMBLE_RMT  |                                |         |          |
| 40  |       | L?OTHERWISE   |                                | (F)     |          |
| 41  |       | +B_T391TIMEOUT_RMT  |                                |         |          |
| 42  |       | +B_POSTAMBLE_RMT  |                                |         |          |
| 43  |       | LRMT?OTHERWISE  |                                | (F)     |          |
| 44  |       | +B_T391TIMEOUT_RMT  |                                |         |          |
| 45  |       | +B_POSTAMBLE_RMT  |                                |         |          |
| <b>Detailed Comments</b> : (1) STATUS ENQUIRY with an invalid receive sequence number |       |   |                                |         |          |

| Test Case Dynamic Behaviour   |       |  |                      |         |          |
|---|-------|--|----------------------|---------|----------|
| <b>Test Case Name</b> : B_23V   |       |  |                      |         |          |
| <b>Group</b> : Bidirectional/General/   |       |  |                      |         |          |
| <b>Purpose</b> : Verify that the PVC status IE in the STATUS message sent by the IUT are in ascending order.<br>Standard Ref.: A.1.1 Note 3 |       |  |                      |         |          |
| <b>Configuration</b> :  |       |  |                      |         |          |
| <b>Default</b> :  |       |  |                      |         |          |
| <b>Comments</b> :   |       |  |                      |         |          |
| Nr  | Label | Behaviour Description  | Constraints Ref      | Verdict | Comments |
| 1   |       | +B0_PREAMBLE   |                      |         |          |
| 2   |       | +SET_ONE_PVC   |                      |         |          |
| 3   |       | <IUT!Mgmt>   | PVC_ADD              |         |          |
| 4   |       | START Topr   |                      |         |          |
| 5   | L1    | +INCR_SN(SSN)  |                      |         |          |
| 6   |       | L!Status_Enquiry(N := 1)   | SQ_V2(SSN, RSN)      |         |          |
| 7   |       | START T391   |                      |         |          |
| 8   | L2    | L?Status[BIT_TO_INT(DLCI_VALUE(Status.pvc_status.[0])) < BIT_TO_INT(DLCI_VALUE(Status.pvc_status.[1]))](RSN := Status.link_integrity_verification.end_seq) CANCEL Topr | ST_V16(?, SSN)       | (P)     | (1)      |
| 9   |       | +B_T391TIMEOUT   |                      |         |          |
| 10  |       | +B_POSTAMBLE   |                      |         |          |
| 11  |       | L?Status(RSN := Status.link_integrity_verification.end_seq)  | ST_V14(?, SSN, D, ?) |         |          |
| 12  |       | <IUT!Mgmt>   | PVC_ADD              |         |          |
| 13  |       | +B_T391ToprTIMEOUT   |                      |         |          |
| 14  |       | GOTO L1  |                      |         |          |
| 15  |       | +B_UNEXPECTED  |                      |         |          |
| 16  |       | <IUT!Mgmt>   | PVC_ADD              |         |          |
| 17  |       | GOTO L2  |                      |         |          |
| 18  |       | ?TIMEOUT T391  |                      | (F)     |          |
| 19  |       | +B_POSTAMBLE   |                      |         |          |
| 20  |       | ?TIMEOUT Topr  |                      | (I)     |          |
| 21  |       | +B_T391TIMEOUT   |                      |         |          |
| 22  |       | +B_POSTAMBLE   |                      |         |          |
| 23  |       | L?OTHERWISE  |                      | (F)     |          |
| 24  |       | +B_T391TIMEOUT   |                      |         |          |
| 25  |       | +B_POSTAMBLE   |                      |         |          |
| <b>Detailed Comments</b> : (1) STATUS ENQUIRY with two PVC status IE with DLCIs in ascending order  |       |  |                      |         |          |

| Test Case Dynamic Behaviour  |       |   |                  |         |                |
|--|-------|---|------------------|---------|----------------|
| <b>Test Case Name</b> : B_04N<br><b>Group</b> : Bidirectional/Error/<br><b>Purpose</b> : Verify that the IUT responds to a STATUS ENQUIRY w/ link integrity verification only report type (LIV IE contains an invalid receive sequence number) with a STATUS message. Standard Ref.: A.6, A.5.1<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |   |                  |         |                |
| Nr   | Label | Behaviour Description   | Constraints Ref  | Verdict | Comments       |
| 1  |       | +B1_PREAMBLE  |                  |         |                |
| 2  |       | +INCR_SN(SSN)   |                  |         |                |
| 3  |       | L!Status_Enquiry (N := N + 1)                                 | SQ_V1(SSN,'00'O) |         |                |
| 4  |       | START T391  |                  |         |                |
| 5  | L1    | L?Status (RSN := Status.link_integrity_verification.send_seq) | ST_V1(?,SSN)     | (P)     | RT=LIV only    |
| 6  |       | +B_T391TIMEOUT  |                  |         |                |
| 7  |       | +B_POSTAMBLE  |                  |         |                |
| 8  |       | L?Status (RSN := Status.link_integrity_verification.send_seq) | ST_V9(?,SSN)     | (P)     | RT=Full status |
| 9  |       | +B_T391TIMEOUT  |                  |         |                |
| 10   |       | +B_POSTAMBLE  |                  |         |                |
| 11   |       | +B_UNEXPECTED   |                  |         |                |
| 12   |       | GOTO L1   |                  |         |                |
| 13   |       | ?TIMEOUT T391   |                  | (F)     |                |
| 14   |       | +B_POSTAMBLE  |                  |         |                |
| 15   |       | L?OTHERWISE   |                  | (F)     |                |
| 16   |       | +B_POSTAMBLE  |                  |         |                |
| <b>Detailed Comments</b> :   |       |   |                  |         |                |

| Test Case Dynamic Behaviour   |       |                               |                      |         |          |
|---|-------|-------------------------------|----------------------|---------|----------|
| <b>Test Case Name</b> : B_05N   |       |                               |                      |         |          |
| <b>Group</b> : Bidirectional/Error/   |       |                               |                      |         |          |
| <b>Purpose</b> : Verify that the IUT ignores a STATUS ENQUIRY w/ link integrity verification onlyreport type containing a protocol discrimination error. Standard Ref.: A.6 |       |                               |                      |         |          |
| <b>Configuration</b> :  |       |                               |                      |         |          |
| <b>Default</b> :  |       |                               |                      |         |          |
| <b>Comments</b> :   |       |                               |                      |         |          |
| Nr  | Label | Behaviour Description         | Constraints Ref      | Verdict | Comments |
| 1   |       | +B1_PREAMBLE                  |                      |         |          |
| 2   |       | (INVAL_SSN := SSN)            |                      |         |          |
| 3   |       | +INCR_SN(INVAL_SSN)           |                      |         |          |
| 4   |       | L!Status_Enquiry (N := N + 1) | SQ_N1(INVAL_SSN,RSN) |         |          |
| 5   |       | START T391                    |                      |         |          |
| 6   | L1    | ?TIMEOUT T391                 |                      | (P)     |          |
| 7   |       | +B_POSTAMBLE                  |                      |         |          |
| 8   |       | +B_UNEXPECTED                 |                      |         |          |
| 9   |       | GOTO L1                       |                      |         |          |
| 10  |       | L?OTHERWISE                   |                      | (F)     |          |
| 11  |       | +B_POSTAMBLE                  |                      |         |          |
| <b>Detailed Comments</b> :  |       |                               |                      |         |          |

| Test Case Dynamic Behaviour  |       |                               |                      |         |          |
|--|-------|-------------------------------|----------------------|---------|----------|
| <b>Test Case Name</b> : B_06N  |       |                               |                      |         |          |
| <b>Group</b> : Bidirectional/Error/  |       |                               |                      |         |          |
| <b>Purpose</b> : Verify that the IUT ignores a STATUS ENQUIRY w/ link integrity verification onlyreport containing a call reference other than the dummy call reference. Standard Ref.: A.6, A.5 |       |                               |                      |         |          |
| <b>Configuration</b> :   |       |                               |                      |         |          |
| <b>Default</b> :   |       |                               |                      |         |          |
| <b>Comments</b> :  |       |                               |                      |         |          |
| Nr   | Label | Behaviour Description         | Constraints Ref      | Verdict | Comments |
| 1  |       | +B1_PREAMBLE                  |                      |         |          |
| 2  |       | (INVAL_SSN := SSN)            |                      |         |          |
| 3  |       | +INCR_SN(INVAL_SSN)           |                      |         |          |
| 4  |       | L!Status_Enquiry (N := N + 1) | SQ_N2(INVAL_SSN,RSN) |         |          |
| 5  |       | START T391                    |                      |         |          |
| 6  | L1    | ?TIMEOUT T391                 |                      | (P)     |          |
| 7  |       | +B_POSTAMBLE                  |                      |         |          |
| 8  |       | +B_UNEXPECTED                 |                      |         |          |
| 9  |       | GOTO L1                       |                      |         |          |
| 10   |       | L?OTHERWISE                   |                      | (F)     |          |
| 11   |       | +B_POSTAMBLE                  |                      |         |          |
| <b>Detailed Comments</b> :   |       |                               |                      |         |          |

| Test Case Dynamic Behaviour   |       |                               |                 |         |          |
|---|-------|-------------------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : B_07N<br><b>Group</b> : Bidirectional/Error/<br><b>Purpose</b> : Verify that the IUT ignores a message too short. Standard Ref.: A.6<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                               |                 |         |          |
| Nr  | Label | Behaviour Description         | Constraints Ref | Verdict | Comments |
| 1   | L1    | +B0_PREAMBLE                  | SQ_N3           | (P)     |          |
| 2   |       | L!Status_Enquiry (N := N + 1) |                 |         |          |
| 3   |       | START T391                    |                 |         |          |
| 4   |       | ?TIMEOUT T391                 |                 |         |          |
| 5   |       | +B_POSTAMBLE                  |                 |         |          |
| 6   |       | +B_UNEXPECTED                 |                 |         |          |
| 7   |       | GOTO L1                       |                 |         |          |
| 8   |       | L?OTHERWISE                   |                 |         |          |
| 9   |       | +B_POSTAMBLE                  |                 |         |          |
| <b>Detailed Comments</b> :  |       |                               |                 |         |          |

| Test Case Dynamic Behaviour   |       |                               |                      |         |          |
|---|-------|-------------------------------|----------------------|---------|----------|
| <b>Test Case Name</b> : B_08N<br><b>Group</b> : Bidirectional/Error/<br><b>Purpose</b> : Verify that the IUT ignores an unrecognized message (invalid message type). The remainder of the message appears as valid STATUS ENQUIRY w/ link integrity verification only report type. Standard Ref.: A.6, A.5<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                               |                      |         |          |
| Nr  | Label | Behaviour Description         | Constraints Ref      | Verdict | Comments |
| 1   | L1    | +B0_PREAMBLE                  | SQ_N4(INVAL_SSN,RSN) | (P)     |          |
| 2   |       | (INVAL_SSN := SSN)            |                      |         |          |
| 3   |       | +INCR_SN(INVAL_SSN)           |                      |         |          |
| 4   |       | L!Status_Enquiry (N := N + 1) |                      |         |          |
| 5   |       | START T391                    |                      |         |          |
| 6   |       | ?TIMEOUT T391                 |                      |         |          |
| 7   |       | +B_POSTAMBLE                  |                      |         |          |
| 8   |       | +B_UNEXPECTED                 |                      |         |          |
| 9   |       | GOTO L1                       |                      |         |          |
| 10  |       | L?OTHERWISE                   |                      |         |          |
| 11  |       | +B_POSTAMBLE                  |                      |         |          |
| <b>Detailed Comments</b> :  |       |                               |                      |         |          |

| Test Case Dynamic Behaviour   |       |  |                      |         |          |
|---|-------|--|----------------------|---------|----------|
| <b>Test Case Name</b> : B_09N   |       |  |                      |         |          |
| <b>Group</b> : Bidirectional/Error/   |       |  |                      |         |          |
| <b>Purpose</b> : Verify that the IUT ignores a STATUS ENQUIRY message w/ full status report type containing an out of sequence IE (report type) or responds with a full STATUS message. Standard Ref.: A.6, A.5 |       |  |                      |         |          |
| <b>Configuration</b> :  |       |  |                      |         |          |
| <b>Default</b> :  |       |  |                      |         |          |
| <b>Comments</b> :   |       |  |                      |         |          |
| Nr  | Label | Behaviour Description  | Constraints Ref      | Verdict | Comments |
| 1   |       | +B0_PREAMBLE   |                      |         |          |
| 2   |       | [IE_Out_Of_Seq]  |                      |         |          |
| 3   |       | +INCR_SN(SSN)  |                      |         |          |
| 4   |       | L!Status_Enquiry_RT0os (N := 1)                                      | SQ_N5(SSN,RSN)       |         |          |
| 5   |       | START T391   |                      |         |          |
| 6   | L1    | L?Status (RSN :=<br>Status.link_integrity_verification.send<br>_seq) | ST_V9(? ,SSN)        | (P)     |          |
| 7   |       | +B_T391TIMEOUT   |                      |         |          |
| 8   |       | +B_POSTAMBLE   |                      |         |          |
| 9   |       | +B_UNEXPECTED  |                      |         |          |
| 10  |       | GOTO L1  |                      |         |          |
| 11  |       | ?TIMEOUT T391  |                      | (F)     |          |
| 12  |       | +B_POSTAMBLE   |                      |         |          |
| 13  |       | L?OTHERWISE  |                      | (F)     |          |
| 14  |       | +B_POSTAMBLE   |                      |         |          |
| 15  |       | [NOT (IE_Out_Of_Seq)]  |                      |         |          |
| 16  |       | (INVAL_SSN := SSN)   |                      |         |          |
| 17  |       | +INCR_SN(INVAL_SSN)  |                      |         |          |
| 18  |       | L!Status_Enquiry_RT0os (N := 1)                                      | SQ_N5(INVAL_SSN,RSN) |         |          |
| 19  |       | START T391   |                      |         |          |
| 20  | L2    | ?TIMEOUT T391  |                      | (P)     |          |
| 21  |       | +B_POSTAMBLE   |                      |         |          |
| 22  |       | +B_UNEXPECTED  |                      |         |          |
| 23  |       | GOTO L2  |                      |         |          |
| 24  |       | L?OTHERWISE  |                      | (F)     |          |
| 25  |       | +B_POSTAMBLE   |                      |         |          |
| <b>Detailed Comments</b> :  |       |  |                      |         |          |

| Test Case Dynamic Behaviour   |       |  |                 |         |                |
|---|-------|--|-----------------|---------|----------------|
| <b>Test Case Name</b> : B_10N   |       |  |                 |         |                |
| <b>Group</b> : Bidirectional/Error/   |       |  |                 |         |                |
| <b>Purpose</b> : Verify that the IUT responds to a STATUS ENQUIRY w/ link integrity verification only report type containing a duplicate IE (LIV). The proper IUT response is a STATUS message. Standard Ref.: A.6, A.5 |       |  |                 |         |                |
| <b>Configuration</b> :  |       |  |                 |         |                |
| <b>Default</b> :  |       |  |                 |         |                |
| <b>Comments</b> :   |       |  |                 |         |                |
| Nr  | Label | Behaviour Description  | Constraints Ref | Verdict | Comments       |
| 1   |       | +B1_PREAMBLE   |                 |         |                |
| 2   |       | +INCR_SN(SSN)  |                 |         |                |
| 3   |       | L!Status_Enquiry_LIVrep (N := N + 1)   | SQ_N6(SSN,RSN)  |         |                |
| 4   |       | START T391   |                 |         |                |
| 5   | L1    | L?Status (RSN :=<br>Status.link_integrity_verification.send_<br>seq)         | ST_V1(?,SSN)    | (P)     | RT=LIV only    |
| 6   |       | +B_T391TIMEOUT   |                 |         |                |
| 7   |       | +B_POSTAMBLE   |                 |         |                |
| 8   |       | L?Status (RSN :=<br>Status.link_integrity_verification.send_<br>seq, N := 1) | ST_V9(?,SSN)    | (P)     | RT=Full status |
| 9   |       | +B_T391TIMEOUT   |                 |         |                |
| 10  |       | +B_POSTAMBLE   |                 |         |                |
| 11  |       | +B_UNEXPECTED  |                 |         |                |
| 12  |       | GOTO L1  |                 |         |                |
| 13  |       | ?TIMEOUT T391  |                 | (F)     |                |
| 14  |       | +B_POSTAMBLE   |                 |         |                |
| 15  |       | L?OTHERWISE  |                 | (F)     |                |
| 16  |       | +B_POSTAMBLE   |                 |         |                |
| <b>Detailed Comments</b> :  |       |  |                 |         |                |

| Test Case Dynamic Behaviour   |       |  |                 |         |                |
|---|-------|--|-----------------|---------|----------------|
| <b>Test Case Name</b> : B_11N   |       |  |                 |         |                |
| <b>Group</b> : Bidirectional/Error/   |       |  |                 |         |                |
| <b>Purpose</b> : Verify that the IUT responds to a STATUS ENQUIRY w/ full status report type containing a duplicate IE (report type). The proper IUT response is a STATUS message w/ full status report type. Standard Ref.: A.6, A.5 |       |  |                 |         |                |
| <b>Configuration</b> :  |       |  |                 |         |                |
| <b>Default</b> :  |       |  |                 |         |                |
| <b>Comments</b> :   |       |  |                 |         |                |
| Nr  | Label | Behaviour Description  | Constraints Ref | Verdict | Comments       |
| 1   |       | +B0_PREAMBLE   |                 |         |                |
| 2   |       | +INCR_SN(SSN)  |                 |         |                |
| 3   |       | L!Status_Enquiry_RTrep (N := 1)                                      | SQ_N7(SSN,RSN)  |         |                |
| 4   |       | START T391   |                 |         |                |
| 5   | L1    | L?Status (RSN :=<br>Status.link_integrity_verification.send_<br>seq) | ST_V9(? ,SSN)   | (P)     | RT=Full status |
| 6   |       | +B_T391TIMEOUT   |                 |         |                |
| 7   |       | +B_POSTAMBLE   |                 |         |                |
| 8   |       | +B_UNEXPECTED  |                 |         |                |
| 9   |       | GOTO L1  |                 |         |                |
| 10  |       | ?TIMEOUT T391  |                 | (F)     |                |
| 11  |       | +B_POSTAMBLE   |                 |         |                |
| 12  |       | L?OTHERWISE  |                 | (F)     |                |
| 13  |       | +B_POSTAMBLE   |                 |         |                |
| <b>Detailed Comments</b> :  |       |  |                 |         |                |

| Test Case Dynamic Behaviour  |       |   |                 |         |                |     |
|--|-------|---|-----------------|---------|----------------|-----|
| <b>Test Case Name</b> : B_12N<br><b>Group</b> : Bidirectional/Error/<br><b>Purpose</b> : Verify that the IUT responds to a STATUS ENQUIRY w/ full status report type containing an unrecognized IE. The proper IUT response is a STATUS message w/ full status report type. Standard Ref.: A.6, A.5<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |   |                 |         |                |     |
| Nr   | Label | Behaviour Description   | Constraints Ref | Verdict | Comments       |     |
| 1  | L1    | +B0_PREAMBLE  | SQ_N8(SSN,RSN)  | (P)     | RT=Full status |     |
| 2  |       | +INCR_SN(SSN)   |                 |         |                |     |
| 3  |       | L!Status_Enquiry_LIVrep (N := 1)                              |                 |         |                |     |
| 4  |       | START T391  |                 |         |                |     |
| 5  |       | L?Status (RSN := Status.link_integrity_verification.send_seq) |                 |         |                |     |
| 6  |       | +B_T391TIMEOUT  |                 |         |                |     |
| 7  |       | +B_POSTAMBLE  |                 |         |                |     |
| 8  |       | +B_UNEXPECTED   |                 |         |                |     |
| 9  |       | GOTO L1   |                 |         |                |     |
| 10   |       | ?TIMEOUT T391   |                 |         |                | (F) |
| 11   |       | +B_POSTAMBLE  |                 |         |                |     |
| 12   |       | L?OTHERWISE   |                 |         |                | (F) |
| 13   |       | +B_POSTAMBLE  |                 |         |                |     |
| <b>Detailed Comments</b> :   |       |   |                 |         |                |     |

| Test Case Dynamic Behaviour   |       |                               |                      |         |          |     |
|---|-------|-------------------------------|----------------------|---------|----------|-----|
| <b>Test Case Name</b> : B_13N<br><b>Group</b> : Bidirectional/Error/<br><b>Purpose</b> : Verify that the IUT ignores STATUS ENQUIRY containing a mandatory IE missing (report type). The remainder of the message appears as a link integrity verification only report type. Standard Ref.: A.6, A.5<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                               |                      |         |          |     |
| Nr  | Label | Behaviour Description         | Constraints Ref      | Verdict | Comments |     |
| 1   | L1    | +B1_PREAMBLE                  | SQ_N9(INVAL_SSN,RSN) | (P)     |          |     |
| 2   |       | (INVAL_SSN := SSN)            |                      |         |          |     |
| 3   |       | +INCR_SN(INVAL_SSN)           |                      |         |          |     |
| 4   |       | L!Status_Enquiry (N := N + 1) |                      |         |          |     |
| 5   |       | START T391                    |                      |         |          |     |
| 6   |       | ?TIMEOUT T391                 |                      |         |          |     |
| 7   |       | +B_POSTAMBLE                  |                      |         |          |     |
| 8   |       | +B_UNEXPECTED                 |                      |         |          |     |
| 9   |       | GOTO L1                       |                      |         |          |     |
| 10  |       | L?OTHERWISE                   |                      |         |          | (F) |
| 11  |       | +B_POSTAMBLE                  |                      |         |          |     |
| <b>Detailed Comments</b> :  |       |                               |                      |         |          |     |

| Test Case Dynamic Behaviour   |       |                               |                 |         |          |
|---|-------|-------------------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : B_14N   |       |                               |                 |         |          |
| <b>Group</b> : Bidirectional/Error/   |       |                               |                 |         |          |
| <b>Purpose</b> : Verify that the IUT ignores STATUS ENQUIRY w/ full status report type containing a mandatory IE missing (link integrity verification). Standard Ref.: A.6, A.5 |       |                               |                 |         |          |
| <b>Configuration</b> :  |       |                               |                 |         |          |
| <b>Default</b> :  |       |                               |                 |         |          |
| <b>Comments</b> :   |       |                               |                 |         |          |
| Nr  | Label | Behaviour Description         | Constraints Ref | Verdict | Comments |
| 1   |       | +B0_PREAMBLE                  |                 |         |          |
| 2   |       | L!Status_Enquiry (N := N + 1) | SQ_N10          |         |          |
| 3   |       | START T391                    |                 |         |          |
| 4   | L1    | ?TIMEOUT T391                 |                 | (P)     |          |
| 5   |       | +B_POSTAMBLE                  |                 |         |          |
| 6   |       | +B_UNEXPECTED                 |                 |         |          |
| 7   |       | GOTO L1                       |                 |         |          |
| 8   |       | L?OTHERWISE                   |                 | (F)     |          |
| 9   |       | +B_POSTAMBLE                  |                 |         |          |
| <b>Detailed Comments</b> :  |       |                               |                 |         |          |

| Test Case Dynamic Behaviour  |       |                               |                       |         |          |
|--|-------|-------------------------------|-----------------------|---------|----------|
| <b>Test Case Name</b> : B_15N  |       |                               |                       |         |          |
| <b>Group</b> : Bidirectional/Error/  |       |                               |                       |         |          |
| <b>Purpose</b> : Verify that the IUT ignores STATUS ENQUIRY containing a mandatory IE content error (report type). Standard Ref.: A.6, A.5 |       |                               |                       |         |          |
| <b>Configuration</b> :   |       |                               |                       |         |          |
| <b>Default</b> :   |       |                               |                       |         |          |
| <b>Comments</b> :  |       |                               |                       |         |          |
| Nr   | Label | Behaviour Description         | Constraints Ref       | Verdict | Comments |
| 1  |       | +B0_PREAMBLE                  |                       |         |          |
| 2  |       | (INVAL_SSN := SSN)            |                       |         |          |
| 3  |       | +INCR_SN(INVAL_SSN)           |                       |         |          |
| 4  |       | L!Status_Enquiry (N := N + 1) | SQ_N11(INVAL_SSN,RSN) |         |          |
| 5  |       | START T391                    |                       |         |          |
| 6  | L1    | ?TIMEOUT T391                 |                       | (P)     |          |
| 7  |       | +B_POSTAMBLE                  |                       |         |          |
| 8  |       | +B_UNEXPECTED                 |                       |         |          |
| 9  |       | GOTO L1                       |                       |         |          |
| 10   |       | L?OTHERWISE                   |                       | (F)     |          |
| 11   |       | +B_POSTAMBLE                  |                       |         |          |
| <b>Detailed Comments</b> :   |       |                               |                       |         |          |

| Test Case Dynamic Behaviour   |       |                           |                   |         |          |
|---|-------|---------------------------|-------------------|---------|----------|
| <b>Test Case Name</b> : B_16N<br><b>Group</b> : Bidirectional/Error/<br><b>Purpose</b> : Verify that the IUT ignores STATUS ENQUIRY w/ full status report type containing a mandatory IE content error (link integrity verification IE with length = 1 and missing its receive sequence number). Standard Ref.: A.6, A.5<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                           |                   |         |          |
| Nr  | Label | Behaviour Description     | Constraints Ref   | Verdict | Comments |
| 1   | L1    | +B1_PREAMBLE              | SQ_N12(INVAL_SSN) |         |          |
| 2   |       | (INVAL_SSN := SSN)        |                   |         |          |
| 3   |       | +INCR_SN(INVAL_SSN)       |                   |         |          |
| 4   |       | L!Status_Enquiry (N := 1) |                   |         |          |
| 5   |       | START T391                |                   |         |          |
| 6   |       | ?TIMEOUT T391             |                   |         |          |
| 7   |       | +B_POSTAMBLE              |                   |         |          |
| 8   |       | +B_UNEXPECTED             |                   |         |          |
| 9   |       | GOTO L1                   |                   |         |          |
| 10  |       | L?OTHERWISE               |                   |         |          |
| 11  |       | +B_POSTAMBLE              |                   |         |          |
| <b>Detailed Comments</b> :  |       |                           |                   |         |          |

| Test Case Dynamic Behaviour   |       |                                       |                 |         |          |
|---|-------|---------------------------------------|-----------------|---------|----------|
| <b>Test Case Name</b> : B_19V<br><b>Group</b> : Bidirectional/System/<br><b>Purpose</b> : Verify that the IUT increments the send sequence counter in the network-to-user direction modulo 256 but skips 0. Standard Ref.: A.4.2<br><b>Configuration</b> :<br><b>Default</b> :<br><b>Comments</b> : |       |                                       |                 |         |          |
| Nr  | Label | Behaviour Description                 | Constraints Ref | Verdict | Comments |
| 1   |       | +B1_PREAMBLE                          |                 |         |          |
| 2   |       | REPEAT B_RESPONSE UNTIL [RSN = 'FF'0] |                 |         |          |
| 3   |       | +B_RESPONSE                           |                 |         |          |
| 4   |       | [RSN = '00'0]                         |                 |         |          |
| 5   |       | +B_POSTAMBLE                          |                 |         |          |
| 6   |       | [NOT (RSN = '00'0)]                   |                 |         |          |
| 7   |       | +B_POSTAMBLE                          |                 |         |          |
| <b>Detailed Comments</b> :  |       |                                       |                 |         |          |

| Test Step Dynamic Behaviour  |       |  |                 |         |          |
|--|-------|--|-----------------|---------|----------|
| <b>Test Step Name</b> : B0_PREAMBLE  |       |  |                 |         |          |
| <b>Group</b> : Preamble/   |       |  |                 |         |          |
| <b>Objective</b> : Procedure to bring the IUT in state S0 – TE ready to exchange Layer 3 messages, service affecting condition cleared, and IUT waiting for a STATUS ENQUIRY message |       |  |                 |         |          |
| <b>Default</b> :   |       |  |                 |         |          |
| <b>Comments</b> :  |       |  |                 |         |          |
| Nr   | Label | Behaviour Description  | Constraints Ref | Verdict | Comments |
| 1  |       | (SSN := '00'O, RSN := '00'O, N := 1, Event := 0, D := '0000000000'B) |                 |         |          |
| 2  | L1    | [Event = N393B]  |                 |         |          |
| 3  |       | [NOT (Event = N393B)]  |                 |         |          |
| 4  |       | +B_RESPONSE  |                 |         |          |
| 5  |       | (Event := Event + 1)   |                 |         |          |
| 6  |       | GOTO L1  |                 |         |          |
| <b>Detailed Comments</b> : Before the execution of this test step, the device should be powered up and the Frame Relay interface of CPE enabled.                                     |       |  |                 |         |          |

| Test Step Dynamic Behaviour  |       |  |                 |         |          |
|--|-------|--|-----------------|---------|----------|
| <b>Test Step Name</b> : B0_PREAMBLE_RMT  |       |  |                 |         |          |
| <b>Group</b> : Preamble/   |       |  |                 |         |          |
| <b>Objective</b> : Procedure to bring the IUT in state S0 – TE ready to exchange Layer 3 messages, service affecting condition cleared, and IUT waiting for a STATUS ENQUIRY message |       |  |                 |         |          |
| <b>Default</b> :   |       |  |                 |         |          |
| <b>Comments</b> :  |       |  |                 |         |          |
| Nr   | Label | Behaviour Description  | Constraints Ref | Verdict | Comments |
| 1  |       | (SSN := '00'O, RSN := '00'O, SSN_RMT := '00'O, RSN_RMT := '00'O, N := 1, Event := 0) |                 |         |          |
| 2  | L1    | [Event = N393B]  |                 |         |          |
| 3  |       | [NOT (Event = N393B)]  |                 |         |          |
| 4  |       | +B_RESPONSE_RMT  |                 |         |          |
| 5  |       | (Event := Event + 1)   |                 |         |          |
| 6  |       | GOTO L1  |                 |         |          |
| <b>Detailed Comments</b> : Before the execution of this test step, the device should be powered up and the Frame Relay interface of CPE enabled.                                     |       |  |                 |         |          |

| Test Step Dynamic Behaviour   |       |                       |                 |         |          |
|---|-------|-----------------------|-----------------|---------|----------|
| <b>Test Step Name</b> : B1_PREAMBLE   |       |                       |                 |         |          |
| <b>Group</b> : Preamble/  |       |                       |                 |         |          |
| <b>Objective</b> : Procedure to bring the IUT in state S1 – TE waiting for STATUS ENQUIRY message w/ link integrity verification only report type |       |                       |                 |         |          |
| <b>Default</b> :  |       |                       |                 |         |          |
| <b>Comments</b> :   |       |                       |                 |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1   |       | +B0_PREAMBLE          |                 |         |          |
| 2   |       | [N < N391B]           |                 |         |          |
| 3   |       | [N = N391B]           |                 |         |          |
| 4   |       | +B_RESPONSE           |                 |         |          |
| <b>Detailed Comments</b> :  |       |                       |                 |         |          |

| Test Step Dynamic Behaviour  |       |  |                 |         |          |
|--|-------|--|-----------------|---------|----------|
| <b>Test Step Name</b> : PS0_PREAMBLE   |       |  |                 |         |          |
| <b>Group</b> : Preamble/   |       |  |                 |         |          |
| <b>Objective</b> : Procedure to bring the IUT in state S0 – TE ready to exchange Layer 3 messages and service affecting condition cleared        |       |  |                 |         |          |
| <b>Default</b> :   |       |  |                 |         |          |
| <b>Comments</b> :  |       |  |                 |         |          |
| Nr   | Label | Behaviour Description                            | Constraints Ref | Verdict | Comments |
| 1  |       | (SSN := '00'O, RSN := '00'O, N := 1, Event := 1) |                 |         |          |
| 2  |       | +P_SYNCH   |                 |         |          |
| 3  | L1    | [Event = N393]                                   |                 |         |          |
| 4  |       | [NOT (Event = N393)]                             |                 |         |          |
| 5  |       | +P_POLLING                                       |                 |         |          |
| 6  |       | (Event := Event + 1)                             |                 |         |          |
| 7  |       | GOTO L1  |                 |         |          |
| <b>Detailed Comments</b> : Before the execution of this test step, the device should be powered up and the Frame Relay interface of CPE enabled. |       |  |                 |         |          |

| Test Step Dynamic Behaviour   |       |   |                 |         |                |
|---|-------|---|-----------------|---------|----------------|
| <b>Test Step Name</b> : PS1_PREAMBLE  |       |   |                 |         |                |
| <b>Group</b> : Preamble/  |       |   |                 |         |                |
| <b>Objective</b> : Procedure to bring IUT in state S1 – Wait for a STATUS ENQUIRY w/ full statusreport type |       |   |                 |         |                |
| <b>Default</b> :  |       |   |                 |         |                |
| <b>Comments</b> :   |       |   |                 |         |                |
| Nr  | Label | Behaviour Description   | Constraints Ref | Verdict | Comments       |
| 1   |       | +PS0_PREAMBLE   |                 |         |                |
| 2   | L1    | START T392  |                 |         |                |
| 3   | L2    | L?Status_Enquiry (RSN := Status_Enquiry.link_integrity_verification.s end_seq, N := 1) CANCEL T392                | SQ_V2(?,SSN)    |         | RT=Full status |
| 4   |       | L?Status_Enquiry [N < N391] (RSN := Status_Enquiry.link_integrity_verification.s end_seq, N := N + 1) CANCEL T392 | SQ_V1(?,SSN)    |         | RT=LIV only    |
| 5   |       | +INCR_SN(SSN)   |                 |         |                |
| 6   |       | L!Status  | ST_V1(SSN,RSN)  |         |                |
| 7   |       | GOTO L1   |                 |         |                |
| 8   |       | ?TIMEOUT T392   |                 | (I)     |                |
| 9   |       | +P_POSTAMBLE  |                 |         |                |
| 10  |       | +P_UNEXPECTED   |                 |         |                |
| 11  |       | GOTO L2   |                 |         |                |
| 12  |       | L?OTHERWISE   |                 | (F)     |                |
| 13  |       | +P_POSTAMBLE  |                 |         |                |
| <b>Detailed Comments</b> :  |       |   |                 |         |                |

| Test Step Dynamic Behaviour  |       |                       |                 |         |          |
|--|-------|-----------------------|-----------------|---------|----------|
| <b>Test Step Name</b> : PS20_PREAMBLE  |       |                       |                 |         |          |
| <b>Group</b> : Preamble/   |       |                       |                 |         |          |
| <b>Objective</b> : Procedure to bring IUT in state S20 – Wait for Timer T391 to time out and N <N391 |       |                       |                 |         |          |
| <b>Default</b> :   |       |                       |                 |         |          |
| <b>Comments</b> :  |       |                       |                 |         |          |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1  |       | +PS30_PREAMBLE        |                 |         |          |
| 2  |       | +INCR_SN(SSN)         |                 |         |          |
| 3  |       | L!Status              | ST_V1(SSN,RSN)  |         |          |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |

| Test Step Dynamic Behaviour  |       |                                   |                 |         |          |
|--|-------|-----------------------------------|-----------------|---------|----------|
| <b>Test Step Name</b> : PS21_PREAMBLE  |       |                                   |                 |         |          |
| <b>Group</b> : Preamble/   |       |                                   |                 |         |          |
| <b>Objective</b> : Procedure to bring IUT in state S21 – Wait for Timer T391 to time out and N =N391 |       |                                   |                 |         |          |
| <b>Default</b> :   |       |                                   |                 |         |          |
| <b>Comments</b> :  |       |                                   |                 |         |          |
| Nr   | Label | Behaviour Description             | Constraints Ref | Verdict | Comments |
| 1  |       | +PS0_PREAMBLE                     |                 |         |          |
| 2  |       | [N = N391]                        |                 |         |          |
| 3  |       | [NOT (N = N391)]                  |                 |         |          |
| 4  |       | REPEAT P_POLLING UNTIL [N = N391] |                 |         |          |
| <b>Detailed Comments</b> :   |       |                                   |                 |         |          |

| Test Step Dynamic Behaviour  |       |   |                 |         |                |
|--|-------|---|-----------------|---------|----------------|
| <b>Test Step Name</b> : PS30_PREAMBLE  |       |   |                 |         |                |
| <b>Group</b> : Preamble/   |       |   |                 |         |                |
| <b>Objective</b> : Procedure to bring IUT in state S3 – Wait for a STATUS ENQUIRY w/ link integrity verification only report type (N < N391) |       |   |                 |         |                |
| <b>Default</b> :   |       |   |                 |         |                |
| <b>Comments</b> :  |       |   |                 |         |                |
| Nr   | Label | Behaviour Description   | Constraints Ref | Verdict | Comments       |
| 1  |       | +PS0_PREAMBLE   |                 |         |                |
| 2  | L1    | START T392  |                 |         |                |
| 3  | L2    | L?Status_Enquiry [N < N391] (RSN := Status_Enquiry.link_integrity_verification.s end_seq, N := N + 1) CANCEL T392 | SQ_V1(?,SSN)    |         | RT=LIV only    |
| 4  |       | L?Status_Enquiry (RSN := Status_Enquiry.link_integrity_verification.s end_seq, N := 1) CANCEL T392                | SQ_V2(?,SSN)    |         | RT=Full status |
| 5  |       | +INCR_SN(SSN)   |                 |         |                |
| 6  |       | L!Status  | ST_V5(SSN,RSN)  |         |                |
| 7  |       | GOTO L1   |                 |         |                |
| 8  |       | ?TIMEOUT T392   |                 | (I)     |                |
| 9  |       | +P_POSTAMBLE  |                 |         |                |
| 10   |       | +P_UNEXPECTED   |                 |         |                |
| 11   |       | GOTO L2   |                 |         |                |
| 12   |       | L?OTHERWISE   |                 | (F)     |                |
| 13   |       | +P_POSTAMBLE  |                 |         |                |
| <b>Detailed Comments</b> :   |       |   |                 |         |                |

| Test Step Dynamic Behaviour  |       |  |                 |         |                |
|--|-------|--|-----------------|---------|----------------|
| <b>Test Step Name</b> : PS31_PREAMBLE  |       |  |                 |         |                |
| <b>Group</b> : Preamble/   |       |  |                 |         |                |
| <b>Objective</b> : Procedure to bring IUT in state S3 – Wait for a STATUS ENQUIRY w/ link integrity verification only report type and N = N391 |       |  |                 |         |                |
| <b>Default</b> :   |       |  |                 |         |                |
| <b>Comments</b> :  |       |  |                 |         |                |
| Nr   | Label | Behaviour Description  | Constraints Ref | Verdict | Comments       |
| 1  |       | +PS0_PREAMBLE  |                 |         |                |
| 2  |       | [N = N391 – 1]   |                 |         |                |
| 3  |       | [NOT (N = N391 – 1)]   |                 |         |                |
| 4  | L1    | REPEAT P_POLLING UNTIL [N = N391 – 1]  |                 |         |                |
| 5  |       | START T392   |                 |         |                |
| 6  | L2    | L?Status_Enquiry [N < N391] (RSN := Status_Enquiry.link_integrity_verification.send_seq, N := N + 1) CANCEL T392 | SQ_V1(?,SSN)    |         | RT=LIV only    |
| 7  |       | L?Status_Enquiry (RSN := Status_Enquiry.link_integrity_verification.send_seq, N := 1) CANCEL T392                | SQ_V2(?,SSN)    |         | RT=Full status |
| 8  |       | +INCR_SN(SSN)  |                 |         |                |
| 9  |       | L!Status   | ST_V5(SSN,RSN)  |         |                |
| 10   |       | GOTO L1  |                 |         |                |
| 11   |       | ?TIMEOUT T392  |                 | (I)     |                |
| 12   |       | +P_POSTAMBLE   |                 |         |                |
| 13   |       | +P_UNEXPECTED  |                 |         |                |
| 14   |       | GOTO L2  |                 |         |                |
| 15   |       | L?OTHERWISE  |                 | (F)     |                |
| 16   |       | +P_POSTAMBLE   |                 |         |                |
| <b>Detailed Comments</b> :   |       |  |                 |         |                |

| Test Step Dynamic Behaviour  |       |  |                 |         |                |
|--|-------|--|-----------------|---------|----------------|
| <b>Test Step Name</b> : P_VERIFICATION   |       |  |                 |         |                |
| <b>Group</b> : Verification/   |       |  |                 |         |                |
| <b>Objective</b> : Perform the periodic polling procedure once to insure that IUT's receive sequence number matches tester's send sequence number. |       |  |                 |         |                |
| <b>Default</b> :   |       |  |                 |         |                |
| <b>Comments</b> :  |       |  |                 |         |                |
| Nr   | Label | Behaviour Description  | Constraints Ref | Verdict | Comments       |
| 1  | L1    | START T392   |                 |         |                |
| 2  |       | L?Status_Enquiry [N < N391] (RSN := Status_Enquiry.link_integrity_verification.send_seq, N := N + 1) CANCEL T392 | SQ_V1(?,SSN)    | (P)     | RT=LIV only    |
| 3  |       | +INCR_SN(SSN)  |                 |         |                |
| 4  |       | L!Status   | ST_V1(SSN,RSN)  |         |                |
| 5  |       | L?Status_Enquiry (RSN := Status_Enquiry.link_integrity_verification.send_seq, N := 1) CANCEL T392                | SQ_V2(?,SSN)    | (P)     | RT=Full status |
| 6  |       | +INCR_SN(SSN)  |                 |         |                |
| 7  |       | L!Status   | ST_V5(SSN,RSN)  |         |                |
| 8  |       | +P_UNEXPECTED  |                 |         |                |
| 9  |       | GOTO L1  |                 |         |                |
| 10   |       | ?TIMEOUT T392  |                 |         | (F)            |
| 11   |       | +P_POSTAMBLED  |                 |         |                |
| 12   |       | L?OTHERWISE  |                 |         | (F)            |
| 13   |       | +P_POSTAMBLED  |                 |         |                |
| <b>Detailed Comments</b> :   |       |  |                 |         |                |

| Test Step Dynamic Behaviour                       |       |   |                 |         |                |
|---|-------|---|-----------------|---------|----------------|
| <b>Test Step Name</b> : B_RESPONSE                |       |   |                 |         |                |
| <b>Group</b> : Miscellaneous/                     |       |   |                 |         |                |
| <b>Objective</b> : Perform the response procedure |       |   |                 |         |                |
| <b>Default</b> :                                  |       |   |                 |         |                |
| <b>Comments</b> :                                 |       |   |                 |         |                |
| Nr  | Label | Behaviour Description   | Constraints Ref | Verdict | Comments       |
| 1   | L1    | +INCR_SN(SSN)   |                 |         |                |
| 2   |       | L!Status_Enquiry (N := 1)                                     | SQ_V2(SSN,RSN)  |         | RT=Full status |
| 3   |       | START T391  |                 |         |                |
| 4   |       | L?Status (RSN := Status.link_integrity_verification.send_seq) | ST_V9(?,SSN)    |         |                |
| 5   |       | +B_T391TIMEOUT  |                 |         |                |
| 6   |       | +B_UNEXPECTED   |                 |         |                |
| 7   |       | GOTO L1   |                 |         |                |
| 8   |       | ?TIMEOUT T391   |                 |         | (F)            |
| 9   |       | +B_POSTAMBLED   |                 |         |                |
| 10  |       | L?OTHERWISE   |                 |         | (F)            |
| 11  |       | +B_T391TIMEOUT  |                 |         |                |
| 12  |       | +B_POSTAMBLED   |                 |         |                |
| <b>Detailed Comments</b> :                        |       |   |                 |         |                |

| Test Step Dynamic Behaviour                       |       |  |                        |         |                |
|---|-------|--|------------------------|---------|----------------|
| <b>Test Step Name</b> : B_RESPONSE_RMT            |       |  |                        |         |                |
| <b>Group</b> : Miscellaneous/                     |       |  |                        |         |                |
| <b>Objective</b> : Perform the response procedure |       |  |                        |         |                |
| <b>Default</b> :                                  |       |  |                        |         |                |
| <b>Comments</b> :                                 |       |  |                        |         |                |
| Nr  | Label | Behaviour Description  | Constraints Ref        | Verdict | Comments       |
| 1   |       | +INCR_SN(SSN)  |                        |         |                |
| 2   |       | L!Status_Enquiry (N := 1)  | SQ_V2(SSN,RSN)         |         | RT=Full status |
| 3   |       | +INCR_SN(SSN_RMT)  |                        |         |                |
| 4   |       | LRMT!Status_Enquiry  | SQ_V2(SSN_RMT,RSN_RMT) |         | RT=Full status |
| 5   |       | START T391   |                        |         |                |
| 6   | L1    | L?Status (RSN := Status.link_integrity_verification.send_seq)        | ST_V9(?,SSN)           |         |                |
| 7   | L2    | LRMT?Status (RSN_RMT := Status.link_integrity_verification.send_seq) | ST_V9(?,SSN_RMT)       |         |                |
| 8   |       | +B_T391TIMEOUT_RMT   |                        |         |                |
| 9   |       | +B_UNEXPECTED_RMT  |                        |         |                |
| 10  |       | GOTO L2  |                        |         |                |
| 11  |       | +INV_BEH   |                        |         |                |
| 12  |       | LRMT?Status (RSN_RMT := Status.link_integrity_verification.send_seq) | ST_V9(?,SSN_RMT)       |         |                |
| 13  | L3    | L?Status (RSN := Status.link_integrity_verification.send_seq)        | ST_V9(?,SSN)           |         |                |
| 14  |       | +B_T391TIMEOUT_RMT   |                        |         |                |
| 15  |       | +B_UNEXPECTED_RMT  |                        |         |                |
| 16  |       | GOTO L3  |                        |         |                |
| 17  |       | +INV_BEH   |                        |         |                |
| 18  |       | +B_UNEXPECTED_RMT  |                        |         |                |
| 19  |       | GOTO L1  |                        |         |                |
| 20  |       | +INV_BEH   |                        |         |                |
| 21  |       | INV_BEH  |                        |         |                |
| 21  |       | ?TIMEOUT T391  |                        | (F)     |                |
| 22  |       | +B_POSTAMBLE_RMT   |                        |         |                |
| 23  |       | L?OTHERWISE  |                        | (F)     |                |
| 24  |       | +B_T391TIMEOUT_RMT   |                        |         |                |
| 25  |       | +B_POSTAMBLE_RMT   |                        |         |                |
| 26  |       | LRMT?OTHERWISE   |                        | (F)     |                |
| 27  |       | +B_T391TIMEOUT_RMT   |                        |         |                |
| 28  |       | +B_POSTAMBLE_RMT   |                        |         |                |
| <b>Detailed Comments</b> :                        |       |  |                        |         |                |

| Test Step Dynamic Behaviour           |       |                       |                 |         |          |  |
|---------------------------------------|-------|-----------------------|-----------------|---------|----------|--|
| <b>Test Step Name</b> : B_T391TIMEOUT |       |                       |                 |         |          |  |
| <b>Group</b> : Miscellaneous/         |       |                       |                 |         |          |  |
| <b>Objective</b> : T391 timeout       |       |                       |                 |         |          |  |
| <b>Default</b> :                      |       |                       |                 |         |          |  |
| <b>Comments</b> :                     |       |                       |                 |         |          |  |
| Nr                                    | Label | Behaviour Description | Constraints Ref | Verdict | Comments |  |
| 1                                     | L1    | ?TIMEOUT T391         |                 |         |          |  |
| 2                                     |       | +B_UNEXPECTED         |                 |         |          |  |
| 3                                     |       | ?TIMEOUT T391         |                 |         |          |  |
| 4                                     |       | +B_UNEXPECTED         |                 |         |          |  |
| 5                                     |       | GOTO L1               |                 |         |          |  |
| 6                                     |       | L?OTHERWISE           |                 |         | (F)      |  |
| 7                                     |       | +B_POSTAMBLE          |                 |         |          |  |
| 8                                     |       | L?OTHERWISE           |                 |         | (F)      |  |
| 9                                     |       | +B_POSTAMBLE          |                 |         |          |  |
| <b>Detailed Comments</b> :            |       |                       |                 |         |          |  |

| Test Step Dynamic Behaviour   |       |                       |                 |         |          |  |
|---|-------|-----------------------|-----------------|---------|----------|--|
| <b>Test Step Name</b> : B_T391TIMEOUT_RMT                                     |       |                       |                 |         |          |  |
| <b>Group</b> : Miscellaneous/   |       |                       |                 |         |          |  |
| <b>Objective</b> : T391 timeout – handle both the local and remote interfaces |       |                       |                 |         |          |  |
| <b>Default</b> :  |       |                       |                 |         |          |  |
| <b>Comments</b> :   |       |                       |                 |         |          |  |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments |  |
| 1   | L1    | ?TIMEOUT T391         |                 |         |          |  |
| 2   |       | +B_UNEXPECTED_RMT     |                 |         |          |  |
| 3   |       | ?TIMEOUT T391         |                 |         |          |  |
| 4   |       | +B_UNEXPECTED_RMT     |                 |         |          |  |
| 5   |       | GOTO L1               |                 |         |          |  |
| 6   |       | L?OTHERWISE           |                 |         | (F)      |  |
| 7   |       | +B_POSTAMBLE_RMT      |                 |         |          |  |
| 8   |       | LRMT?OTHERWISE        |                 |         | (F)      |  |
| 9   |       | +B_POSTAMBLE_RMT      |                 |         |          |  |
| 10  |       | L?OTHERWISE           |                 |         | (F)      |  |
| 11  |       | +B_POSTAMBLE_RMT      |                 |         |          |  |
| 12  |       | LRMT?OTHERWISE        |                 |         | (F)      |  |
| 13  |       | +B_POSTAMBLE_RMT      |                 |         |          |  |
| <b>Detailed Comments</b> :  |       |                       |                 |         |          |  |

| Test Step Dynamic Behaviour  |       |                       |                 |         |          |  |
|--|-------|-----------------------|-----------------|---------|----------|--|
| <b>Test Step Name</b> : B_T391ToprTIMEOUT  |       |                       |                 |         |          |  |
| <b>Group</b> : Miscellaneous/  |       |                       |                 |         |          |  |
| <b>Objective</b> : Wait for timer T391 to time out; if timer Topr times out, then fail |       |                       |                 |         |          |  |
| <b>Default</b> :   |       |                       |                 |         |          |  |
| <b>Comments</b> :  |       |                       |                 |         |          |  |
| Nr   | Label | Behaviour Description | Constraints Ref | Verdict | Comments |  |
| 1  | L1    | ?TIMEOUT T391         |                 |         |          |  |
| 2  |       | +B_UNEXPECTED         |                 |         |          |  |
| 3  |       | ?TIMEOUT T391         |                 |         |          |  |
| 4  |       | +B_UNEXPECTED         |                 |         |          |  |
| 5  |       | GOTO L1               |                 |         |          |  |
| 6  |       | ?TIMEOUT Topr         |                 |         | (I)      |  |
| 7  |       | +B_POSTAMBLE          |                 |         |          |  |
| 8  |       | L?OTHERWISE           |                 |         | (F)      |  |
| 9  |       | +B_POSTAMBLE          |                 |         |          |  |
| 10   |       | ?TIMEOUT Topr         |                 |         | (I)      |  |
| 11   |       | +B_POSTAMBLE          |                 |         |          |  |
| 12   |       | L?OTHERWISE           |                 |         | (F)      |  |
| 13   |       | +B_POSTAMBLE          |                 |         |          |  |
| <b>Detailed Comments</b> :   |       |                       |                 |         |          |  |

| Test Step Dynamic Behaviour   |       |                       |                 |         |          |  |
|---|-------|-----------------------|-----------------|---------|----------|--|
| <b>Test Step Name</b> : B_T391ToprTIMEOUT_RMT                                 |       |                       |                 |         |          |  |
| <b>Group</b> : Miscellaneous/   |       |                       |                 |         |          |  |
| <b>Objective</b> : T391 timeout – handle both the local and remote interfaces |       |                       |                 |         |          |  |
| <b>Default</b> :  |       |                       |                 |         |          |  |
| <b>Comments</b> :   |       |                       |                 |         |          |  |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments |  |
| 1   | L1    | ?TIMEOUT T391         |                 |         |          |  |
| 2   |       | +B_UNEXPECTED_RMT     |                 |         |          |  |
| 3   |       | ?TIMEOUT T391         |                 |         |          |  |
| 4   |       | +B_UNEXPECTED_RMT     |                 |         |          |  |
| 5   |       | GOTO L1               |                 |         |          |  |
| 6   |       | ?TIMEOUT Topr         |                 |         | (I)      |  |
| 7   |       | +B_POSTAMBLE_RMT      |                 |         |          |  |
| 8   |       | L?OTHERWISE           |                 |         | (F)      |  |
| 9   |       | +B_POSTAMBLE_RMT      |                 |         |          |  |
| 10  |       | LRMT?OTHERWISE        |                 |         | (F)      |  |
| 11  |       | +B_POSTAMBLE_RMT      |                 |         |          |  |
| 12  |       | ?TIMEOUT Topr         |                 |         | (I)      |  |
| 13  |       | +B_POSTAMBLE_RMT      |                 |         |          |  |
| 14  |       | L?OTHERWISE           |                 |         | (F)      |  |
| 15  |       | +B_POSTAMBLE          |                 |         |          |  |
| 16  |       | LRMT?OTHERWISE        |                 |         | (F)      |  |
| 17  |       | +B_POSTAMBLE_RMT      |                 |         |          |  |
| <b>Detailed Comments</b> :  |       |                       |                 |         |          |  |

| Test Step Dynamic Behaviour   |       |                       |                 |         |                   |
|---|-------|-----------------------|-----------------|---------|-------------------|
| <b>Test Step Name</b> : B_UNEXPECTED                                      |       |                       |                 |         |                   |
| <b>Group</b> : Miscellaneous/   |       |                       |                 |         |                   |
| <b>Objective</b> : Procedure to handle all acceptable unexpected messages |       |                       |                 |         |                   |
| <b>Default</b> :  |       |                       |                 |         |                   |
| <b>Comments</b> :   |       |                       |                 |         |                   |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments          |
| 1   |       | L?Status_Enquiry      | SQ_V1(?,?)      |         | RT=LIV only       |
| 2   |       | L?Status_Enquiry      | SQ_V2(?,?)      |         | RT=Full status    |
| 3   |       | L?Status              | ST_V10          |         | RT=PVC<br>asynch. |
| <b>Detailed Comments</b> :  |       |                       |                 |         |                   |

| Test Step Dynamic Behaviour   |       |                       |                 |         |                   |
|---|-------|-----------------------|-----------------|---------|-------------------|
| <b>Test Step Name</b> : B_UNEXPECTED_RMT  |       |                       |                 |         |                   |
| <b>Group</b> : Miscellaneous/   |       |                       |                 |         |                   |
| <b>Objective</b> : Procedure to handle all acceptable unexpected messages on both the local and remote interfaces |       |                       |                 |         |                   |
| <b>Default</b> :  |       |                       |                 |         |                   |
| <b>Comments</b> :   |       |                       |                 |         |                   |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments          |
| 1   |       | L?Status_Enquiry      | SQ_V1(?,?)      |         | RT=LIV only       |
| 2   |       | L?Status_Enquiry      | SQ_V2(?,?)      |         | RT=Full status    |
| 3   |       | L?Status              | ST_V10          |         | RT=PVC<br>asynch. |
| 4   |       | LRMT?Status_Enquiry   | SQ_V1(?,?)      |         | RT=LIV only       |
| 5   |       | LRMT?Status_Enquiry   | SQ_V2(?,?)      |         | RT=Full status    |
| 6   |       | LRMT?Status           | ST_V10          |         | RT=PVC<br>asynch. |
| <b>Detailed Comments</b> :  |       |                       |                 |         |                   |

| Test Step Dynamic Behaviour                                       |       |  |                 |         |          |
|---|-------|--|-----------------|---------|----------|
| <b>Test Step Name</b> : INCR_SN(SN:OCTETSTRING)                   |       |  |                 |         |          |
| <b>Group</b> : Miscellaneous/                                     |       |  |                 |         |          |
| <b>Objective</b> : Increment sequence number modulo 256 (skip 0). |       |  |                 |         |          |
| <b>Default</b> :  |       |  |                 |         |          |
| <b>Comments</b> :   |       |  |                 |         |          |
| Nr  | Label | Behaviour Description                              | Constraints Ref | Verdict | Comments |
| 1   |       | (SN := INT_TO_OCT((OCT_TO_INT(SN) + 1) MOD 256,1)) |                 |         |          |
| 2   |       | [SN = '00'O] (SN := '01'O)                         |                 |         |          |
| 3   |       | [NOT (SN = '00'O)]                                 |                 |         |          |
| <b>Detailed Comments</b> :  |       |  |                 |         |          |

| Test Step Dynamic Behaviour                               |       |  |                 |         |                |
|---|-------|--|-----------------|---------|----------------|
| <b>Test Step Name</b> : P_POLLING                         |       |  |                 |         |                |
| <b>Group</b> : Miscellaneous/                             |       |  |                 |         |                |
| <b>Objective</b> : Perform the periodic polling procedure |       |  |                 |         |                |
| <b>Default</b> :  |       |  |                 |         |                |
| <b>Comments</b> :   |       |  |                 |         |                |
| Nr  | Label | Behaviour Description  | Constraints Ref | Verdict | Comments       |
| 1   |       | START T392   |                 |         |                |
| 2   | L1    | L?Status_Enquiry [N < N391] (RSN := Status_Enquiry.link_integrity_verification.se<br>nd_seq, N := N + 1) CANCEL T392 | SQ_V1(?,SSN)    |         | RT=LIV only    |
| 3   |       | +INCR_SN(SSN)  |                 |         |                |
| 4   |       | L!Status   | ST_V1(SSN,RSN)  |         |                |
| 5   |       | L?Status_Enquiry (RSN := Status_Enquiry.link_integrity_verification.se<br>nd_seq, N := 1) CANCEL T392                | SQ_V2(?,SSN)    |         | RT=Full status |
| 6   |       | +INCR_SN(SSN)  |                 |         |                |
| 7   |       | L!Status   | ST_V5(SSN,RSN)  |         |                |
| 8   |       | +P_UNEXPECTED  |                 |         |                |
| 9   |       | GOTO L1  |                 |         |                |
| 10  |       | ?TIMEOUT T392  |                 | (F)     |                |
| 11  |       | +P_POSTAMBLE   |                 |         |                |
| 12  |       | L?OTHERWISE  |                 | (F)     |                |
| 13  |       | +P_POSTAMBLE   |                 |         |                |
| <b>Detailed Comments</b> :                                |       |  |                 |         |                |

| Test Step Dynamic Behaviour  |       |  |                 |         |                |
|--|-------|--|-----------------|---------|----------------|
| <b>Test Step Name</b> : P_SYNCH  |       |  |                 |         |                |
| <b>Group</b> : Miscellaneous/  |       |  |                 |         |                |
| <b>Objective</b> : Perform the periodic polling procedure (on first poll, do not check content of IUT's receive sequence number) |       |  |                 |         |                |
| <b>Default</b> :   |       |  |                 |         |                |
| <b>Comments</b> :  |       |  |                 |         |                |
| Nr   | Label | Behaviour Description  | Constraints Ref | Verdict | Comments       |
| 1  | L1    | START T392   |                 |         |                |
| 2  |       | L?Status_Enquiry [N < N391] (RSN := Status_Enquiry.link_integrity_verification.se<br>nd_seq, N := N + 1) CANCEL T392 | SQ_V1(?,?)      |         | RT=LIV only    |
| 3  |       | +INCR_SN(SSN)  |                 |         |                |
| 4  |       | L!Status   | ST_V1(SSN,RSN)  |         |                |
| 5  |       | L?Status_Enquiry (RSN := Status_Enquiry.link_integrity_verification.se<br>nd_seq, N := 1) CANCEL T392                | SQ_V2(?,?)      |         | RT=Full status |
| 6  |       | +INCR_SN(SSN)  |                 |         |                |
| 7  |       | L!Status   | ST_V5(SSN,RSN)  |         |                |
| 8  |       | +P_UNEXPECTED  |                 |         |                |
| 9  |       | GOTO L1  |                 |         |                |
| 10   |       | ?TIMEOUT T392  |                 |         | (F)            |
| 11   |       | +P_POSTAMBLE   |                 |         |                |
| 12   |       | L?OTHERWISE  |                 |         | (F)            |
| 13   |       | +P_POSTAMBLE   |                 |         |                |
| <b>Detailed Comments</b> :   |       |  |                 |         |                |

| Test Step Dynamic Behaviour   |       |  |                 |         |                |
|---|-------|--|-----------------|---------|----------------|
| <b>Test Step Name</b> : P_TIMEOUT   |       |  |                 |         |                |
| <b>Group</b> : Miscellaneous/   |       |  |                 |         |                |
| <b>Objective</b> : Time out until the IUT sends a STATUS ENQUIRY message. |       |  |                 |         |                |
| <b>Default</b> :  |       |  |                 |         |                |
| <b>Comments</b> :   |       |  |                 |         |                |
| Nr  | Label | Behaviour Description  | Constraints Ref | Verdict | Comments       |
| 1   |       | START T392   |                 |         |                |
| 2   | L1    | L?Status_Enquiry [N < N391] (RSN := Status_Enquiry.link_integrity_verification.se<br>nd_seq, N := N + 1) CANCEL T392 | SQ_V1(?,SSN)    |         | RT=LIV only    |
| 3   |       | (Event := Event + 1)   |                 |         |                |
| 4   |       | L?Status_Enquiry (RSN := Status_Enquiry.link_integrity_verification.se<br>nd_seq, N := 1) CANCEL T392                | SQ_V2(?,SSN)    |         | RT=Full status |
| 5   |       | (Event := Event + 1)   |                 |         |                |
| 6   |       | +P_UNEXPECTED  |                 |         |                |
| 7   |       | GOTO L1  |                 |         |                |
| 8   |       | ?TIMEOUT T392  |                 | (F)     |                |
| 9   |       | +P_POSTAMBLE   |                 |         |                |
| 10  |       | L?OTHERWISE  |                 | (F)     |                |
| 11  |       | +P_POSTAMBLE   |                 |         |                |
| <b>Detailed Comments</b> :  |       |  |                 |         |                |

| Test Step Dynamic Behaviour   |       |                       |                 |         |          |
|---|-------|-----------------------|-----------------|---------|----------|
| <b>Test Step Name</b> : P_UNEXPECTED                                      |       |                       |                 |         |          |
| <b>Group</b> : Miscellaneous/   |       |                       |                 |         |          |
| <b>Objective</b> : Procedure to handle all acceptable unexpected messages |       |                       |                 |         |          |
| <b>Default</b> :  |       |                       |                 |         |          |
| <b>Comments</b> :   |       |                       |                 |         |          |
| Nr  | Label | Behaviour Description | Constraints Ref | Verdict | Comments |
| 1   |       | [FALSE]               |                 |         |          |
| <b>Detailed Comments</b> :  |       |                       |                 |         |          |

| Test Step Dynamic Behaviour  |       |  |                 |         |          |
|--|-------|--|-----------------|---------|----------|
| <b>Test Step Name</b> : SET_ONE_PVC  |       |  |                 |         |          |
| <b>Group</b> : Miscellaneous/  |       |  |                 |         |          |
| <b>Objective</b> : Procedure to set up one and only one PVC in the PVC table |       |  |                 |         |          |
| <b>Default</b> :   |       |  |                 |         |          |
| <b>Comments</b> :  |       |  |                 |         |          |
| Nr   | Label | Behaviour Description  | Constraints Ref | Verdict | Comments |
| 1  |       | +CONFIG_PVC_SEGMENT  |                 |         |          |
| 2  |       | START Topr   |                 |         |          |
| 3  | L1    | +INCR_SN(SSN)  |                 |         |          |
| 4  |       | L!Status_Enquiry(N := 1)   | SQ_V2(SSN, RSN) |         |          |
| 5  |       | START T391   |                 |         |          |
| 6  | L2    | L?Status(D :=<br>DLCI_VALUE(Status.pvc_status.[0])<br>, RSN :=<br>Status.link_integrity_verification.send<br>_seq) CANCEL Topr | ST_V12(?, SSN)  |         |          |
| 7  |       | +B_T391TIMEOUT   |                 |         |          |
| 8  |       | L?Status(RSN :=<br>Status.link_integrity_verification.send<br>_seq)  | ST_V9(?, SSN)   |         |          |
| 9  |       | +CONFIG_PVC_SEGMENT  |                 |         |          |
| 10   |       | +B_T391ToprTIMEOUT   |                 |         |          |
| 11   |       | GOTO L1  |                 |         |          |
| 12   |       | ?TIMEOUT T391  |                 | (F)     |          |
| 13   |       | +B_POSTAMBLE   |                 |         |          |
| 14   |       | ?TIMEOUT Topr  |                 | (I)     |          |
| 15   |       | +B_POSTAMBLE   |                 |         |          |
| 16   |       | +B_UNEXPECTED  |                 |         |          |
| 17   |       | +CONFIG_PVC_SEGMENT  |                 |         |          |
| 18   |       | GOTO L2  |                 |         |          |
| 19   |       | L?OTHERWISE  |                 | (F)     |          |
| 20   |       | +B_POSTAMBLE   |                 |         |          |
|  |       | CONFIG_PVC_SEGMENT   |                 |         |          |
| 21   |       | <IUT!Mgmt>   | PVC_CLEAR       |         |          |
| 22   |       | <IUT!Mgmt>   | PVC_ADD         |         |          |
| <b>Detailed Comments</b> :   |       |  |                 |         |          |

| Test Step Dynamic Behaviour   |       |   |                    |         |          |
|---|-------|---|--------------------|---------|----------|
| <b>Test Step Name</b> : SET_ONE_PVC_RMT   |       |   |                    |         |          |
| <b>Group</b> : Miscellaneous/   |       |   |                    |         |          |
| <b>Objective</b> : Procedure to set up one and only one two-segment PVC (local and remote interfaces) |       |   |                    |         |          |
| <b>Default</b> :  |       |   |                    |         |          |
| <b>Comments</b> :   |       |   |                    |         |          |
| Nr  | Label | Behaviour Description   | Constraints Ref    | Verdict | Comments |
| 1   |       | +B0_PREAMBLE_RMT  |                    |         |          |
| 2   |       | START Topr  |                    |         |          |
| 3   |       | +CONFIG_PVC_SEGMENT   |                    |         |          |
| 4   | L1    | +POLL   |                    |         |          |
| 5   | L1a   | L?Status[D = '000000000'B] (RSN :=<br>Status.link_integrity_verification.send_<br>seq, D :=<br>DLCI_VALUE(Status.pvc_status.[0]))         | ST_V12(?, SSN)     |         | (1)      |
| 6   | L2    | LRMT?Status(RSN_RMT :=<br>Status.link_integrity_verification.send_<br>_seq, DRMT :=<br>DLCI_VALUE(Status.pvc_status.[0])<br>) CANCEL Topr | ST_V12(?, SSN_RMT) | (P)     | (1)      |
| 7   |       | +B_T391TIMEOUT_RMT  |                    |         |          |
| 8   |       | LRMT?Status(RSN_RMT :=<br>Status.link_integrity_verification.send_<br>_seq)   | ST_V9(?, SSN_RMT)  |         |          |
| 9   |       | [DRMT = '000000000'B]   |                    |         |          |
| 10  |       | +CONFIG_PVC_SEGMENT   |                    |         |          |
| 11  |       | +B_T391ToprTIMEOUT_RMT  |                    |         |          |
| 12  |       | GOTO L1   |                    |         |          |
| 13  |       | [NOT(DRMT = '000000000'B)]  |                    | (P)     |          |
| 14  |       | CANCEL Topr   |                    |         |          |
| 15  |       | +B_T391TIMEOUT_RMT  |                    |         |          |
| 16  |       | +B_UNEXPECTED_RMT   |                    |         |          |
| 17  |       | +CONFIG_PVC_SEGMENT   |                    |         |          |
| 18  |       | GOTO L2   |                    |         |          |
| 19  |       | +INV_BEH  |                    |         |          |
| 20  |       | L?Status(RSN :=<br>Status.link_integrity_verification.send_<br>seq)   | ST_V9(?, SSN)      |         |          |
| 21  | L3    | LRMT?Status(RSN_RMT :=<br>Status.link_integrity_verification.send_<br>_seq, DRMT :=<br>DLCI_VALUE(Status.pvc_status.[0])<br>)             | ST_V12(?, SSN_RMT) |         | (1)      |
| 22  |       | [D = '000000000'B]  |                    |         |          |
| 23  |       | +CONFIG_PVC_SEGMENT   |                    |         |          |
| 24  |       | +B_T391ToprTIMEOUT_RMT  |                    |         |          |
| 25  |       | GOTO L1   |                    |         |          |
| 26  |       | [NOT(D = '000000000'B)]   |                    | (P)     |          |
| 27  |       | CANCEL Topr   |                    |         |          |
| 28  |       | +B_T391TIMEOUT_RMT  |                    |         |          |
| 29  |       | LRMT?Status(RSN_RMT :=<br>Status.link_integrity_verification.send_<br>_seq)   | ST_V9(?, SSN_RMT)  |         |          |
| 30  |       | +CONFIG_PVC_SEGMENT   |                    |         |          |

Continued on next page

Continued from previous page

| Test Step Dynamic Behaviour |       |   |                    |         |          |
|-----------------------------|-------|---|--------------------|---------|----------|
| Nr                          | Label | Behaviour Description   | Constraints Ref    | Verdict | Comments |
| 31                          |       | +B_T391ToprTIMEOUT_RMT  |                    |         |          |
| 32                          |       | GOTO L1   |                    |         |          |
| 33                          |       | +B_UNEXPECTED_RMT   |                    |         |          |
| 34                          |       | +CONFIG_PVC_SEGMENT   |                    |         |          |
| 35                          |       | GOTO L3   |                    |         |          |
| 36                          |       | +INV_BEH  |                    |         |          |
| 37                          |       | LRMT?Status[DRMT = '000000000'B]<br>(RSN_RMT :=<br>Status.link_integrity_verification.send_<br>seq, DRMT :=<br>DLCI_VALUE(Status.pvc_status.[0])) | ST_V12(?, SSN_RMT) |         | (1)      |
| 38                          | L4    | L?Status(RSN :=<br>Status.link_integrity_verification.send_<br>_seq, D :=<br>DLCI_VALUE(Status.pvc_status.[0])<br>) CANCEL Topr                   | ST_V12(?, SSN)     | (P)     | (1)      |
| 39                          |       | +B_T391TIMEOUT_RMT  |                    |         |          |
| 40                          |       | L?Status(RSN :=<br>Status.link_integrity_verification.send_<br>_seq)  | ST_V9(?, SSN)      |         |          |
| 41                          |       | [D = '000000000'B]  |                    |         |          |
| 42                          |       | +CONFIG_PVC_SEGMENT   |                    |         |          |
| 43                          |       | +B_T391ToprTIMEOUT_RMT  |                    |         |          |
| 44                          |       | GOTO L1   |                    |         |          |
| 45                          |       | [NOT(D = '000000000'B)]   |                    | (P)     |          |
| 46                          |       | CANCEL Topr   |                    |         |          |
| 47                          |       | +B_T391TIMEOUT_RMT  |                    |         |          |
| 48                          |       | +B_UNEXPECTED_RMT   |                    |         |          |
| 49                          |       | +CONFIG_PVC_SEGMENT   |                    |         |          |
| 50                          |       | GOTO L4   |                    |         |          |
| 51                          |       | +INV_BEH  |                    |         |          |
| 52                          |       | LRMT?Status(RSN_RMT :=<br>Status.link_integrity_verification.send_<br>seq)  | ST_V9(?, SSN_RMT)  |         |          |
| 53                          | L5    | L?Status(RSN :=<br>Status.link_integrity_verification.send_<br>_seq, D :=<br>DLCI_VALUE(Status.pvc_status.[0])<br>)                               | ST_V12(?, SSN)     |         | (1)      |
| 54                          |       | [DRMT = '000000000'B]   |                    |         |          |
| 55                          |       | +CONFIG_PVC_SEGMENT   |                    |         |          |
| 56                          |       | +B_T391ToprTIMEOUT_RMT  |                    |         |          |
| 57                          |       | GOTO L1   |                    |         |          |
| 58                          |       | [NOT(DRMT = '000000000'B)]  |                    | (P)     |          |
| 59                          |       | CANCEL Topr   |                    |         |          |
| 60                          |       | +B_T391TIMEOUT_RMT  |                    |         |          |
| 61                          |       | L?Status(RSN :=<br>Status.link_integrity_verification.send_<br>_seq)  | ST_V9(?, SSN)      |         |          |
| 62                          |       | +CONFIG_PVC_SEGMENT   |                    |         |          |
| 63                          |       | +B_T391ToprTIMEOUT_RMT  |                    |         |          |

Continued on next page

Continued from previous page

| Test Step Dynamic Behaviour |       |                       |                         |         |          |
|-----------------------------|-------|-----------------------|-------------------------|---------|----------|
| Nr                          | Label | Behaviour Description | Constraints Ref         | Verdict | Comments |
| 64                          |       | GOTO L1               |                         |         |          |
| 65                          |       | +B_UNEXPECTED_RMT     |                         |         |          |
| 66                          |       | +CONFIG_PVC_SEGMENT   |                         |         |          |
| 67                          |       | GOTO L5               |                         |         |          |
| 68                          |       | +INV_BEH              |                         |         |          |
| 69                          |       | +B_UNEXPECTED_RMT     |                         |         |          |
| 70                          |       | +CONFIG_PVC_SEGMENT   |                         |         |          |
| 71                          |       | GOTO L1a              |                         |         |          |
| 72                          |       | +INV_BEH              |                         |         |          |
|                             |       | CONFIG_PVC_SEGMENT    |                         |         |          |
| 73                          |       | <IUT!Mgmt>            | PVC_SEG_CLEAR           |         |          |
| 74                          |       | <IUT!Mgmt>            | PVC_SEG_ADD             |         |          |
|                             |       | POLL                  |                         |         |          |
| 75                          |       | +INCR_SN(SSN)         |                         |         |          |
| 76                          |       | L!Status_Enquiry      | SQ_V2(SSN, RSN)         |         |          |
| 77                          |       | +INCR_SN(SSN_RMT)     |                         |         |          |
| 78                          |       | LRMT!Status_Enquiry   | SQ_V2(SSN_RMT, RSN_RMT) |         |          |
| 79                          |       | START T391            |                         |         |          |
|                             |       | INV_BEH               |                         |         |          |
| 80                          |       | ?TIMEOUT T391         |                         | (F)     |          |
| 81                          |       | +B_POSTAMBLE_RMT      |                         |         |          |
| 82                          |       | ?TIMEOUT Topr         |                         | (I)     |          |
| 83                          |       | +B_T391TIMEOUT_RMT    |                         |         |          |
| 84                          |       | +B_POSTAMBLE_RMT      |                         |         |          |
| 85                          |       | L?OTHERWISE           |                         | (F)     |          |
| 86                          |       | +B_POSTAMBLE_RMT      |                         |         |          |
| 87                          |       | LRMT?OTHERWISE        |                         | (F)     |          |
| 88                          |       | +B_POSTAMBLE_RMT      |                         |         |          |

**Detailed Comments** : (1) STATUS w/ full status report type and exactly one PVC status IE

| Test Step Dynamic Behaviour  |       |  |                 |         |                |
|--|-------|--|-----------------|---------|----------------|
| <b>Test Step Name</b> : B_POSTAMBLE                                  |       |  |                 |         |                |
| <b>Group</b> : Postamble/  |       |  |                 |         |                |
| <b>Objective</b> : Postamble for the bidirectional network procedure |       |  |                 |         |                |
| <b>Default</b> :   |       |  |                 |         |                |
| <b>Comments</b> :  |       |  |                 |         |                |
| Nr   | Label | Behaviour Description  | Constraints Ref | Verdict | Comments       |
| 1  |       | +INCR_SN(SSN)  |                 |         |                |
| 2  |       | L!Status_Enquiry [N < N391B] (N := N + 1)                                  | SQ_V1(SSN,RSN)  |         | RT=LIV only    |
| 3  |       | START T391   |                 |         |                |
| 4  | L1    | L?Status (RSN := Status.link_integrity_verification.send_se q) CANCEL T391 | ST_V1(? ,SSN)   | R       |                |
| 5  |       | L?Status (RSN := Status.link_integrity_verification.send_se q) CANCEL T391 | ST_V9(? ,SSN)   | R       |                |
| 6  |       | +B_UNEXPECTED  |                 |         |                |
| 7  |       | GOTO L1  |                 |         |                |
| 8  |       | ?TIMEOUT T391  |                 | F       |                |
| 9  |       | L?OTHERWISE  |                 | F       |                |
| 10   |       | L!Status_Enquiry [NOT (N < N391B)] (N := 1)                                | SQ_V2(SSN,RSN)  |         | RT=Full status |
| 11   |       | START T391   |                 |         |                |
| 12   | L2    | L?Status (RSN := Status.link_integrity_verification.send_se q)             | ST_V9(? ,SSN)   | R       |                |
| 13   |       | +B_UNEXPECTED  |                 |         |                |
| 14   |       | GOTO L2  |                 |         |                |
| 15   |       | ?TIMEOUT T391  |                 | F       |                |
| 16   |       | L?OTHERWISE  |                 | F       |                |
| <b>Detailed Comments</b> :   |       |  |                 |         |                |

| Test Step Dynamic Behaviour  |       |  |                         |         |                |
|--|-------|--|-------------------------|---------|----------------|
| <b>Test Step Name</b> : B_POSTAMBLE_RMT  |       |  |                         |         |                |
| <b>Group</b> : Postamble/  |       |  |                         |         |                |
| <b>Objective</b> : Postamble for the bidirectional network procedure – local and remote interfaces |       |  |                         |         |                |
| <b>Default</b> :   |       |  |                         |         |                |
| <b>Comments</b> :  |       |  |                         |         |                |
| Nr   | Label | Behaviour Description  | Constraints Ref         | Verdict | Comments       |
| 1  |       | +INCR_SN(SSN)  |                         |         |                |
| 2  |       | L!Status_Enquiry   | SQ_V2(SSN, RSN)         |         | RT=full status |
| 3  |       | +INCR_SN(SSN_RMT)  |                         |         |                |
| 4  |       | LRMT!Status_Enquiry  | SQ_V2(SSN_RMT, RSN_RMT) |         |                |
| 5  |       | START T391   |                         |         |                |
| 6  | L1    | L?Status (RSN := Status.link_integrity_verification.send_seq)                    | ST_V9(?, SSN)           |         |                |
| 7  | L2    | LRMT?Status (RSN_RMT := Status.link_integrity_verification.send_seq) CANCEL T391 | ST_V9(?, SSN_RMT)       | R       |                |
| 8  |       | +B_UNEXPECTED_RMT  |                         |         |                |
| 9  |       | GOTO L2  |                         |         |                |
| 10   |       | +INV_BEH   |                         |         |                |
| 11   |       | LRMT?Status (RSN_RMT := Status.link_integrity_verification.send_seq)             | ST_V9(?, SSN_RMT)       |         |                |
| 12   | L3    | L?Status (RSN := Status.link_integrity_verification.send_seq) CANCEL T391        | ST_V9(?, SSN)           | R       |                |
| 13   |       | +B_UNEXPECTED_RMT  |                         |         |                |
| 14   |       | GOTO L3  |                         |         |                |
| 15   |       | +INV_BEH   |                         |         |                |
| 16   |       | +B_UNEXPECTED_RMT  |                         |         |                |
| 17   |       | GOTO L1  |                         |         |                |
| 18   |       | +INV_BEH   |                         |         |                |
|  |       | INV_BEH  |                         |         |                |
| 19   |       | ?TIMEOUT T391  |                         | F       |                |
| 20   |       | L?OTHERWISE  |                         | F       |                |
| 21   |       | LRMT?OTHERWISE   |                         | F       |                |
| <b>Detailed Comments</b> :   |       |  |                         |         |                |

| Test Step Dynamic Behaviour                            |       |  |                 |         |                |
|--|-------|--|-----------------|---------|----------------|
| <b>Test Step Name</b> : P_POSTAMBLE                    |       |  |                 |         |                |
| <b>Group</b> : Postamble/                              |       |  |                 |         |                |
| <b>Objective</b> : Postamble for the polling procedure |       |  |                 |         |                |
| <b>Default</b> :                                       |       |  |                 |         |                |
| <b>Comments</b> :                                      |       |  |                 |         |                |
| Nr   | Label | Behaviour Description  | Constraints Ref | Verdict | Comments       |
| 1  |       | START T392   |                 |         |                |
| 2  | L1    | L?Status_Enquiry [N < N391] (RSN := Status_Enquiry.link_integrity_verification.sequence_seq, N := N + 1) CANCEL T392 | SQ_V1(?,SSN)    |         | RT=LIV only    |
| 3  |       | +INCR_SN(SSN)  |                 |         |                |
| 4  |       | L!Status   | ST_V1(SSN,RSN)  | R       |                |
| 5  |       | L?Status_Enquiry (RSN := Status_Enquiry.link_integrity_verification.sequence_seq, N := 1) CANCEL T392                | SQ_V2(?,SSN)    |         | RT=Full status |
| 6  |       | +INCR_SN(SSN)  |                 |         |                |
| 7  |       | L!Status   | ST_V5(SSN,RSN)  | R       |                |
| 8  |       | +P_UNEXPECTED  |                 |         |                |
| 9  |       | GOTO L1  |                 |         |                |
| 10   |       | ?TIMEOUT T392  |                 | F       |                |
| 11   |       | L?OTHERWISE  |                 | F       |                |
| <b>Detailed Comments</b> :                             |       |  |                 |         |                |