1. **Test Dataset: AA500002**

**S‐58 Recommended ENC Validation Checks covered in this section:**

|  |  |
| --- | --- |
| **S‐58 Check** | **Description** |
| 5 | For each RCID which is Less than 1 OR Greater than 232 -2 (4294967294). |
| 575 | If the DSTR subfield of the DSSI field is Not equal to 2 (chain node). |
| 1523b | If the data set file name extension is Equal to “.000” AND the ISDT subfield of the DSID field is Less than the value of the UADT subfield. |
| 1549 | If the value of CSCL subfield of the DSPM field is Null. |

**Secondary Errors**

Critical – 26a

Error –

Warnings –

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Dataset Name** | AA500002 | **S-58 Check** | 5 | | **Type** | C |
| **S-58 Description** | For each RCID which is Less than 1 OR Greater than 232 -2 (4294967294). | | | | | |
| **Message** | RCID is out of range. | | | | | |
| **Solution** | Amend RCID value. | | **Conformity** | Part 3 (2.2.2) | | |
| **Test Case No. 1** | DSID.RCID subfield has been set to 0. | | | | | |
| **Screen Capture** |  | | | | | |
| **Expected Test Results** | 5: An error “RCID is out of range” must be triggered. | | | | | |
| **Secondary Critical Errors** | None | | | | | |
|  | | | | | | |
| **Dataset Name** | AA500002 | **S-58 Check** | 575 | | **Type** | C |
| **S-58 Description** | If the DSTR subfield of the DSSI field is Not equal to 2 (chain node). | | | | | |
| **Message** | DSTR does not equal 2. | | | | | |
| **Solution** | Set the DSTR subfield to 2 (chain node). | | **Conformity** | 6.3.2.2 and 6.4.2.2 | | |
| **Test Case No. 1** | DSSI.DSTR subfield has been set to 4 (Full Topology). | | | | | |
| **Screen Capture** |  | | | | | |
| **Expected Test Results** | 575: An error “Invalid value 4 for subfield DSTR (expected 2)” must be triggered. | | | | | |
| **Secondary Critical Errors** | None | | | | | |
|  | | | | | | |
| **Dataset Name** | AA500002 | **S-58 Check** | 1523b | | **Type** | C |
| **S-58 Description** | If the data set file name extension is Equal to “.000” AND the ISDT subfield of the DSID field is Less than the value of the UADT subfield. | | | | | |
| **Message** | The ISDT of a base cell file precedes the UADT. | | | | | |
| **Solution** | Amend UADT or ISDT accordingly. | | **Conformity** | 2.2.2 and Appendix B.1 (5.7) | | |
| **Test Case No. 1** | DSID.ISDT subfield has been set to an earlier date than the DSID.UADT subfield | | | | | |
| **ASCII** |  | | | | | |
| **Expected Test Results** | 1523b: An error “The ISDT of a base cell file precedes the UADT” must be triggered. | | | | | |
| **Secondary Critical Errors** | None | | | | | |
|  | | | | | | |
| **Dataset Name** | AA500002 | **S-58 Check** | 1549 | | **Type** | C |
| **S-58 Description** | If the value of CSCL subfield of the DSPM field is Null. | | | | | |
| **Message** | CSCL is not populated with a value. | | | | | |
| **Solution** | Populate CSCL with an appropriate value. | | **Conformity** | 2.2.6 | | |
| **Test Case No. 1** | DSPM.CSCL subfield has been set to null. | | | | | |
| **ASCII** |  | | | | | |
| **Expected Test Results** | 1549: An error “CSCL is not populated with a value” must be triggered. | | | | | |
| **Secondary Critical Errors** | None | | | | | |