1. **Test Dataset: 101AA00400005**

**S‐158 Recommended ENC Validation Checks covered in this section:**

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| **S‐58 Check** | **S‐158 Check** | **Description** |
| 1694 | S-101\_A\_012 | For each Deep Water Route Centreline feature object where orientationValue value is Known AND Traffic flow is Equal to 1 (inbound) OR 2 (outbound) OR 3 (one-way) AND the bearing of the line is more than 5 degrees Greater than OR Less than the value of orientationValue value. |
| 1696 | S-101\_A\_013 | For each Recommended Route Centreline feature object where traffic flow is Equal to 1 (inbound) OR 2 (outbound) OR 3 (one-way) AND the bearing of the line is more than 5 degrees Greater than OR Less than the value of orientationValue value. |
| 1726 | S-101\_A\_015 | If the Data Coverage meta features is Not equal to the combined coverage of Navigational System of Marks meta features. |
| 1727 | S-101\_A\_016 | For each Navigational System of Marks meta feature which OVERLAPS or is WITHIN another meta Navigational System of Marks feature. |
| 1775 | S-101\_B\_007 | For each navigational aid equipment feature object (except Daymark) which is COVERED\_BY a Depth Area, Dredged Area or Unsurveyed Area AND does not have a Structure/Equipment feature association with a navigation aid structure AND the geometry of which is not COVERED\_BY a Span Fixed/Opening, Pylon/Bridge Support, Cable Overhead, Coastline, Conveyor, Dam, (with category of dam Equal to 3 (flood barrage)), Land Area, Pipeline Overhead, Pontoon or Shoreline Construction feature object. |
| 1789a | S-101\_A\_017 | For each Deep Water Route Centreline, Recommended Track and Recommended Route Centreline feature object of geometric primitive curve where orientationValue value is Known AND traffic flow is Equal to 4 (two-way) AND the bearing of the line is more than 5 degrees Greater than OR Less than the value (or reciprocal value) of orientationValue value. |
| 1789b | S-101\_A\_018 | For each Navigation Line feature object where orientationValue value is Known AND the bearing of the line is more than 3 degrees Greater than OR Less than the value (or reciprocal value) of orientationValue value. |
| 1795a | S-101\_A\_019 | For each equipment feature object which has a structure/equipment feature association relationship AND where fixed range date - date start or periodic range date - date start attributes are Known AND the values of fixed range date - date start or periodic range date - date start are Less than the values of fixed range date - date start or periodic range date - date start encoded on the structure object. |
| 1795b | S-101\_A\_020 | For each equipment feature object which has a structure/equipment feature association relationship AND where fixed date range - date end or periodic date range - date end attributes are Known AND the values of fixed date range - date end or periodic date range - date end are Greater than the values of fixed date range - date end or periodic date range - date end encoded on the structure object. |
| 1795c | S-101\_A\_253 | For each equipment feature object which has a structure/equipment feature association relationship AND where fixed range date - date start is Known on the structure feature AND fixed range date - date start is Not Present or Unknown on the equipment feature. |
| 1795d | S-101\_A\_254 | For each equipment feature object which has a structure/equipment feature association relationship AND where periodic range date - date start is Known on the stucture feature AND periodic range date - date start is Not Present or Unknown on the equipment feature. |
| 1795e | S-101\_A\_255 | For each equipment feature object which has a structure/equipment feature association relationship AND where fixed date range - date end is Known on the structure feature AND fixed date range - date end is Not Present or Unknown on the equipment feature. |
| 1795f | S-101\_A\_256 | For each equipment feature object which has a structure/equipment feature association relationship AND where periodic date range - date end is Known on the structure feature AND periodic date range - date end is Not Present or Unknown on the equipment feature. |

**Secondary Errors**

Critical – **S101\_A\_002**(*54b*), **S101\_A\_007**(*505*)

Error – **S101\_A\_060**(*569*), **S101\_A\_061**(*570*)

Warnings – **S101\_4\_001**(*19*), **S101\_A\_186**(*1516*), **S101\_A\_215**(*1682*), **S101\_A\_221**(*1722a*)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Dataset Name** | 101AA00400005 | | | **S‐158 Check** | | S101\_A\_012 | | | **Type** | C |
| **S-158 Description** | For each Deep Water Route Centreline feature object where orientationValue value is Known AND Traffic flow is Equal to 1 (inbound) OR 2 (outbound) OR 3 (one-way) AND the bearing of the line is more than 5 degrees Greater than OR Less than the value of orientationValue value. | | | | | | | | | |
| **Message** | One way Deep Water Route Centreline feature where orientationValue does not correspond to the bearing of the line. | | | | | | | | | |
| **Solution** | Populate an appropriate value of orientationValue for the Deep Water Route Centreline feature consistent with the geometry of the feature. | | | | | **Conformity** | S-101 Annex A 15.13.1 | | | |
| **Test Case No. 1** | DWRTCL (L) features created where orientationValue does not correspond to the bearing of the line. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | **FOID** | | | | **VRID** |
| 32°20'19.44"S 61°10'35.55"E | | DeepWaterRouteCentreline (C) | basedOnFixedMarks=1; orientation=10;  trafficFlow =1 | | FE-09 | 1810\_689738323\_13 | | | | (C)04 |
| 32°20'20.39"S 61°10'34.20"E | | DeepWaterRouteCentreline (C) | basedOnFixedMarks=1; orientation=10; trafficFlow=2 | | FE-17 | 1810\_636849396\_19 | | | | (C)12 |
| 32°20'18.38"S 61°10'36.42"E | | DeepWaterRouteCentreline (C) | basedOnFixedMarks=1; orientation=10; trafficFlow=3 | | FE-18 | 1810\_1052025647\_20 | | | | (C)13 |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | S101\_A\_012: 3 errors “One way DeepWaterRouteCentreline object where orientationValue does not correspond to the bearing of the line” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400005 | | | **S‐158 Check** | | S101\_A\_013 | | | **Type** | C |
| **S-158 Description** | For each Recommended Route Centreline feature object where traffic flow is Equal to 1 (inbound) OR 2 (outbound) OR 3 (one-way) AND the bearing of the line is more than 5 degrees Greater than OR Less than the value of orientationValue value. | | | | | | | | | |
| **Message** | Recommend Route Centreline and its Orientation Value with Inconsistent Values | | | | | | | | | |
| **Solution** | Populate an appropriate value of orientationValue for the Recommended Route Centreline object consistent with the geometry of the object. | | | | | **Conformity** | S-101 Annex A 15.9.1 | | | |
| **Test Case No. 1** | RCRTCL (L) features created where orientationValue does not correspond to the bearing of the line. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | **FOID** | | | | **VRID** |
| 32°20'51.00"S 61°10'25.65"E | | RecommendedRouteCentreline (C) | basedOnFixedMarks=1; orientation=5;  trafficFlow=1 | | FE-10 | 1810\_2031968439\_14 | | | | Curve-05 |
| 32°20'52.87"S 61°10'23.79"E | | Recommended Route Centreline (C) | basedOnFixedMarks=1; orientation=5;  trafficFlow =2 | | FE-19 | 1810\_1525292017\_21 | | | | Curve -14 |
| 32°20'55.27"S 61°10'22.41"E | | Recommended Route Centreline (C) | basedOnFixedMarks=1; orientation=5;  trafficFlow =3 | | FE-20 | 1810\_1558336787\_22 | | | | Curve -15 |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | S101\_A\_013: 3 errors “One-way RCRTCL object where orientationValue does not correspond to the bearing of the line” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400005 | | | **S‐158 Check** | | S101\_A\_015 | | | **Type** | C |
| **S-158 Description** | If the Data Coverage meta features is Not equal to the combined coverage of Navigational System of Marks meta features. | | | | | | | | | |
| **Message** | Extent of Data Coverage and Navigational System of Marks is not the Same | | | | | | | | | |
| **Solution** | Ensure complete coverage of Navigational System of Marks objects. | | | | | **Conformity** | S-101 Annex A 3.4.1; Annex A 3.5.1 | | | |
| **Test Case No. 1** | M\_NSYS created with a hole. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | **FOID** | | | | **VRID** |
| 32°24'22.54"S 61°14'34.60"E | | NavigationalSystemOfMarks | marksNavigationalSystemOf=1 | | FE-15 | 1810\_1489463364\_2 | | | | (S)15 |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | S101\_A\_015: An error “ Data coverage not completely covered by Navigational System of Marks meta features”must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400005 | | | **S‐158 Check** | | S101\_A\_016 | | | **Type** | C |
| **S-158 Description** | For each Navigational System of Marks meta feature which OVERLAPS or is WITHIN another meta Navigational System of Marks feature. | | | | | | | | | |
| **Message** | Overlapping Navigational System of Marks features. | | | | | | | | | |
| **Solution** | Amend limits of Navigational System of Marks objects to remove overlap. | | | | | **Conformity** | S-101 Annex A 3.5.1 | | | |
| **Test Case No. 1** | Two Navigational System of Marks (S) objects overlapping. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | **FOID** | | | | **VRID** |
| 32°24'26.08"S 61°13'35.50"E | | NavigationalSystemOfMarks | marksNavigationalSystemOf=1 | | FE-25 | 1810\_305854279\_4 | | | | (S)25 |
| 32°24'26.08"S 61°13'35.50"E | | NavigationalSystemOfMarks | marksNavigationalSystemOf=1 | | FE-15 | 1810\_1489463364\_2 | | | | (S)15 |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | S101\_A\_016: An error “M\_NSYS objects with MARSYS values overlap” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400005 | | | **S‐158 Check** | | S101\_B\_007 | | | **Type** | C |
| **S-158 Description** | For each navigational aid equipment feature object (except Daymark) which is COVERED\_BY a Depth Area, Dredged Area or Unsurveyed Area AND does not have a Structure/Equipment feature association with a navigation aid structure AND the geometry of which is not COVERED\_BY a Span Fixed/Opening, Pylon/Bridge Support, Cable Overhead, Coastline, Conveyor, Dam, (with category of dam Equal to 3 (flood barrage)), Land Area, Pipeline Overhead, Pontoon or Shoreline Construction feature object. | | | | | | | | | |
| **Message** | Missing Structure/Equipment Feature Association | | | | | | | | | |
| **Solution** | Ensure equipment feature is encoded with an appropriate structure object or underlying object. | | | | | **Conformity** | S-101 Annex B 25.14 | | | |
| **Test Case No. 1** | Navigational aids are created on DEPARE, DRGARE and UNSARE without navigational aid structure. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | **FOID** | | | | **VRID** |
|  | |  |  | |  |  | | | |  |
| 32°24'20.05"S 61°10'48.00"E | | FogSignal(P) | CATFOG=7 | | FE-12 | 1810\_204961271\_15 | | | | (P) 06 |
| 32°24'19.72"S 61°10'51.69"E | | LightAirObstruction(P) | flareBearing=135; colour=3; lightCharacteristic=1 | | FE-53 | 1810\_1238705783\_51 | | | | (P) 31 |
| 32°24'19.80"S 61°10'58.48"E | | RadarStation(P) | - | | FE-26 | 1810\_1194000199\_26 | | | | (P) 10 |
| 32°24'19.72"S 61°11'03.84"E | | RadioStation(P) | - | | FE-29 | 1810\_914280968\_29 | | | | (P) 13 |
| 32°24'19.63"S 61°11'08.45"E | | Retroreflector(P) | - | | FE-32 | 1810\_-1138074877\_32 | | | | (P) 16 |
| 32°24'19.72"S 61°11'14.32"E | | RadarTransponderBeacon(P) | categoryOfRadarTransponderBeacon=2 | | FE-35 | 1810\_1710357157\_35 | | | | (P) -19 |
| 32°24'19.38"S 61°11'18.35"E | | SignalStationTraffic(P) | categoryOfSignalStationTraffic=1 | | FE-38 | 1810\_-355719473\_38 | | | | (P) -22 |
| 32°24'20.05"S 61°11'22.70"E | | SignalStationWarning(P) | categoryOfSignalStationWarning=10 | | FE-41 | 1810\_1523924671\_41 | | | | (P) 25 |
| 32°24'29.02"S 61°10'47.16"E | | FogSignal(P) | categoryOfFogSignal=7 | | FE-03 | 1810\_-757423906\_7 | | | | (P) 02 |
| 32°24'28.85"S 61°10'51.85"E | | LightAirObstruction(P) | flareBearing=135;  colour=3; lightCharacteristic=1 | | FE-54 | 1810\_293671763\_52 | | | | (P) 32 |
| 32°24'28.69"S 61°10'58.23"E | | RadarStation (P) | - | | FE-27 | 1810\_1372873943\_27 | | | | (P) 11 |
| 32°24'29.27"S 61°11'03.59"E | | RadioStation(P) | - | | FE-30 | 1810\_2104668330\_30 | | | | (P) 14 |
| 32°24'28.85"S 61°11'09.29"E | | Retroreflector (P) | - | | FE-33 | 1810\_448049441\_33 | | | | (P) -17 |
| 32°24'28.69"S 61°11'14.49"E | | RadarTransponderBeacon(P) | categoryOfRadarTransponderBeacon=2 | | FE-36 | 1810\_469751751\_36 | | | | (P) -20 |
| 32°24'28.52"S 61°11'19.10"E | | SignalStationTraffic(P) | categoryOfSignalStationTraffic=1 | | FE-39 | 1810\_2129089123\_39 | | | | (P) -23 |
| 32°24'28.43"S 61°11'23.21"E | | SignalStationWarning(P) | categoryOfSignalStationWarning=10 | | FE-42 | 1810\_975855839\_42 | | | | (P) -26 |
| 32°24'37.57"S 61°10'46.32"E | | FogSignal(P) | categoryOfFogSignal=7 | | FE-01 | 1810\_2147145464\_5 | | | | (P) 01 |
| 32°24'37.32"S 61°10'51.77"E | | LightAirObstruction(P) | flareBearing=135;  colour=3; lightCharacteristic=1 | | FE-57 | 1810\_154057642\_55 | | | | (P) 35 |
| 32°24'37.74"S 61°10'57.64"E | | RadarStation (P) | - | | FE-28 | 1810\_1389140258\_28 | | | | (P) 12 |
| 32°24'37.40"S 61°11'02.50"E | | RadioStation (P) | - | | FE-31 | 1810\_1207892399\_31 | | | | (P) 15 |
| 32°24'37.57"S 61°11'08.37"E | | Retroreflector(P) | - | | FE-34 | 1810\_927573138\_34 | | | | (P) 18 |
| 32°24'37.74"S 61°11'14.74"E | | RadarTransponderBeacon(P) | categoryOfRadarTransponderBeacon=2 | | FE-37 | 1810\_2089980217\_37 | | | | (P) 21 |
| 32°24'37.66"S 61°11'19.60"E | | SignalStationTraffic(P) | categoryOfSignalStationTraffic=1 | | FE-40 | 1810\_1507746123\_40 | | | | (P) 24 |
| 32°24'37.57"S 61°11'23.46"E | | SignalStationWarning(P) | categoryOfSignalStationWarning=10 | | FE-43 | 1810\_728111813\_43 | | | | (P) 27 |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | S101\_B\_007: 30 errors “ Missing Structure/Equipment Feature Association” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | S101\_A\_002 : 3 additional errors “Daymark not covered by a suitable supporting object ” must be triggered. | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400005 | | | **S‐158 Check** | | S101\_A\_017 | | | **Type** | C |
| **S-158 Description** | For each Deep Water Route Centreline, Recommended Track and Recommended Route Centreline feature object of geometric primitive curve where orientationValue value is Known AND traffic flow is Equal to 4 (two-way) AND the bearing of the line is more than 5 degrees Greater than OR Less than the value (or reciprocal value) of orientationValue value. | | | | | | | | | |
| **Message** | Deep Water Route Centreline, Recommended Track or Recommended Route Centreline where the orientationValue of the geometry is not consistent with the value of orientationValue value. | | | | | | | | | |
| **Solution** | Populate an appropriate value of orientationValueconsistent with the geometry of the DeepWaterRouteCentreline, RecommendedTrack or RecommendedRouteCentreline object. | | | | | **Conformity** | Logical consistency | | | |
| **Test Case No. 1** | DeepWaterRouteCentreline, RecommendedTrack and RecommendedRouteCentreline line features created where the orientationValue of the geometry is not consistent with the value of orientation. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | **FOID** | | | | **VRID** |
| 32°23'23.42"S 61°11'27.00"E | | DeepWaterRouteCentreline (C) | basedOnFixedMarks=2; orientationValue= 10; trafficFlow = 4 | | FE-47 | 1810\_41857329\_47 | | | | (C)17 |
| 32°23'31.93"S 61°11'27.00"E | | RecommendedTrack (C) | basedOnFixedMarks=2; orientationValue= 10; trafficFlow = 4 | | FE-48 | 1810\_820032718\_48 | | | | (C)18 |
| 32°23'40.29"S 61°11'27.00"E | | RecommendedRouteCentreline (C) | basedOnFixedMarks=2; orientationValue= 10; trafficFlow = 4 | | FE-49 | 1810\_529310847\_49 | | | | (C)19 |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | S101\_A\_017: 3 errors “ Deep Water Route Centreline, Recommended Track or Recommended Route Centreline where the orientation of the geometry is not consistent with the value of orientation value.” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400005 | | | **S‐158 Check** | | S101\_A\_018 | | **Type** | | C |
| **S-158 Description** | For each Navigation Line feature object where orientationValue value is Known AND the bearing of the line is more than 3 degrees Greater than OR Less than the value (or reciprocal value) of orientationValue value. | | | | | | | | | |
| **Message** | Navigation Line with Inconsistent Value between its Geometry and Orientation Value | | | | | | | | | |
| **Solution** | Populate an appropriate value of orientationValue consistent with the geometry of the NavigationLine object. | | | | | **Conformity** | S-101 Annex A 15.4.1 | | | |
| **Test Case No. 1** | NavigationLine line feature created where the orientationValue of the geometry is not consistent with the value of orientationValue. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | **FOID** | | | | **VRID** |
| 32°22'48.09"S 61°11'21.94"E | | NavigationLine (C) | orientationValue = 10 | | FE-50 | 1810\_187722703\_50 | | | | VE-20 |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | S101\_A\_018: An error “ NavigationLine where the orientationValue of the geometry is not consistent with the value of orientation” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400005 | | | **S‐58 Check** | | S101\_A\_019 | | | **Type** | C |
| **S-158 Description** | For each equipment feature object which has a structure/equipment feature association relationship AND where fixed range date - date start or periodic range date - date start attributes are Known AND the values of fixed range date - date start or periodic range date - date start are Less than the values of fixed range date - date start or periodic range date - date start encoded on the structure object. | | | | | | | | | |
| **Message** | Temporal attributes on a equipment feature object extend beyond those on a structure feature object | | | | | | | | | |
| **Solution** | Populate appropriate temporal attributes on master/slave objects. | | | | | **Conformity** | S-101 Annex A 2.4.8 | | | |
| **Test Case No. 1** | dateStart of slave ( LightAirObstruction ) object precedes dateStart of master ( BeaconSpecialPurposeGeneral ) object. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | **FOID** | | | | **VRID** |
| 32°21'12.97"S 61°11'44.15"E | | LightAirObstruction(P) | dateStart= 20120622; status=5 | | FE-56 | 1810\_1571627619\_54 | | | | (P)34 |
| 32°21'12.97"S 61°11'44.15"E | | BeaconSpecialPurposeGeneral(P) | dateStart = 20120623; status =5 | | FE-58 | 1810\_1780921746\_56 | | | | (P)34 |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | S101\_A\_019: An error “Temporal attributes on a slave object extend beyond those on the master object” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
| **Test Case No. 2** | periodicDateRange/dateStart of slave ( LightAirObstruction ) object precedes periodicDateRange/dateStart of master ( BeaconSpecialPurposeGeneral ) object. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | **FOID** | | | | **VRID** |
| 32°21'13.01"S 61°11'56.75"E | | LightAirObstruction (P) | periodicDateRange/dateStart = 20120203;  status=5 | | FE-55 | 1810\_984496933\_53 | | | | (P)33 |
| 32°21'13.01"S 61°11'56.75"E | | BeaconSpecialPurposeGeneral (P) | periodicDateRange/dateStart = 20120204;  status =5 | | FE-59 | 1810\_1117396109\_57 | | | | (P)33 |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | S101\_A\_019: An error “Temporal attributes on a slave object extend beyond those on the master object” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400005 | | | **S‐58 Check** | | S101\_A\_020 | | | **Type** | C |
| **S-158 Description** | For each equipment feature object which has a structure/equipment feature association relationship AND where fixed date range - date end or periodic date range - date end attributes are Known AND the values of fixed date range - date end or periodic date range - date end are Greater than the values of fixed date range - date end or periodic date range - date end encoded on the structure object. | | | | | | | | | |
| **Message** | Temporal attributes on a equipment feature object extend beyond those on a structure feature object | | | | | | | | | |
| **Solution** | Populate appropriate temporal attributes on master/slave objects. | | | | | **Conformity** | S-101 Annex A 2.4.8 | | | |
| **Test Case No. 1** | periodic date range - date end of slave (LightAirObstruction) object is after periodic date range - date end of master ( BeaconSpecialPurposeGeneral ) object. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | **FOID** | | | | **VRID** |
| 32°22'00.18"S 61°11'40.26"E | | LightAirObstruction (P) | periodic date range - date end = 20120630;  status=5 | | FE-67 | 1810\_1401282370\_58 | | | | (P)36 |
| 32°22'00.18"S 61°11'40.26"E | | BeaconSpecialPurposeGeneral (P) | periodic date range - date end = 20120629; status=5 | | FE-62 | 1810\_57454746\_59 | | | | (P)36 |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | S101\_A\_020: An error “Temporal attributes on a slave object extend beyond those on the master object” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
| **Test Case No. 2** | periodic date range - date end of slave (LightAirObstruction) object is after periodic date range - date end of master ( BeaconSpecialPurposeGeneral ) object. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | **FOID** | | | | **VRID** |
| 32°22'00.18"S 61°12'03.19"E | | LightAirObstruction (P) | periodic date range - date end = 20120212; status=5 | | FE-69 | 1810\_1845305972\_60 | | | | (P)37 |
| 32°22'00.18"S 61°12'03.19"E | | BeaconSpecialPurposeGeneral (P) | periodic date range - date end = 20120210; status =5 | | FE-64 | 1810\_209336217\_61 | | | | (P)37 |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | 1810\_209336217\_61: An error “Temporal attributes on a slave object extend beyond those on the master object” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400005 | | | **S‐158 Check** | | S101\_A\_253 | | | **Type** | C |
| **S-158 Description** | For each equipment feature object which has a structure/equipment feature association relationship AND where fixed range date - date start is Known on the structure feature AND fixed range date - date start is Not Present or Unknown on the equipment feature. | | | | | | | | | |
| **Message** | fixedDateRange - dateStart not encoded for slave object of a master object where dateStart exists. | | | | | | | | | |
| **Solution** | Populate temporal attribute dateStart on slave objects to match the master object. | | | | | **Conformity** | S-101 Annex A | | | |
| **Test Case No. 1** | fixedDateRange - dateStart of slave ( LightAirObstruction) object is not defined. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | **FOID** | | | | **VRID** |
| 32-21-37.15S 061-10-50.36E | | LightAirObstruction (P) | fixedDateRange - dateStart = undefined; status=5 | | FE-70 | 1810\_11562315\_63050 | | | | (P) 40 |
| 32-21-37.15S 061-10-50.36E | | BeaconSpecialPurposeGeneral (P) | fixedDateRange - dateStart = 20120623; | | FE-76 | 1810\_11562316\_63050 | | | | (P) 40 |
| **Screen Capture** | Logo  Description automatically generated with medium confidence | | | | | | | | | |
| **Expected Test Results** | S101\_A\_253: An error “fixedDateRange - dateStart not encoded for slave object of a master object where fixedDateRange - dateStart exists” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400005 | | | **S‐158 Check** | | S101\_A\_254 | | | **Type** | C |
| **S-158 Description** | For each equipment feature object which has a structure/equipment feature association relationship AND where periodic range date - date start is Known on the stucture feature AND periodic range date - date start is Not Present or Unknown on the equipment feature. | | | | | | | | | |
| **Message** | periodic range date - date start not encoded for slave object of a master object where PERSTA exists. | | | | | | | | | |
| **Solution** | Populate temporal attribute PERSTA on slave objects to match the master object. | | | | | **Conformity** | S-101 Annex A | | | |
| **Test Case No. 1** | periodic range date - date start of slave (LIGHTS) object is not defined. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | **FOID** | | | | **VRID** |
| 32-21-37.23S 061-11-54.19E | | LIGHTS (P) | periodic range date - date start = undefined; status =5 | | FE-72 | AA 0011562319 63050 | | | | (P)49 |
| 32-21-37.23S 061-11-54.19E | | BCNSPP (P) | periodic range date - date start = 20120623;  status=5 | | FE-74 | AA 0011562320 63050 | | | | (P)49 |
| **Screen Capture** | Diagram  Description automatically generated | | | | | | | | | |
| **Expected Test Results** | S101\_A\_254: An error “ periodic range date - date start not encoded for slave object of a master object where periodic range date - date start exists” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
| **Dataset Name** | 101AA00400005 | | | **S‐58 Check** | | S101\_A\_255 | | | **Type** | C |
| **S-158 Description** | For each equipment feature object which has a structure/equipment feature association relationship AND where fixed date range - date end is Known on the structure feature AND fixed date range - date end is Not Present or Unknown on the equipment feature. | | | | | | | | | |
| **Message** | fixed date range - date end not encoded for slave object of a master object where fixed date range - date end exists. | | | | | | | | | |
| **Solution** | Populate temporal attribute fixed date range - date end on slave objects to match the master object. | | | | | **Conformity** | S-101 Annex A | | | |
| **Test Case No. 1** | fixedDateRange/ date end of slave ( LightAirObstruction ) object is not defined. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | **FOID** | | | | **VRID** |
| 32-21-24.49S 061-12-33.25E | | LightAirObstruction (P) | fixed date range - date end = undefined; | | FE-73 | 1810\_11562323\_63050 | | | | (P)39 |
| 32-21-24.49S 061-12-33.25E | | BeaconSpecialPurposeGeneral(P) | fixed date range - date end = 20120624; | | FE-75 | 1810\_11562324\_63050 | | | | (P)39 |
| **Screen Capture** | Chart, waterfall chart  Description automatically generated | | | | | | | | | |
| **Expected Test Results** | S101\_A\_255: An error “ fixed date range - date end not encoded for slave object of a master object where fixed date range - date end exists” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400005 | | | **S‐158 Check** | | S101\_A\_256 | | | **Type** | C |
| **S-158 Description** | For each equipment feature object which has a structure/equipment feature association relationship AND where periodic date range - date end is Known on the structure feature AND periodic date range - date end is Not Present or Unknown on the equipment feature. | | | | | | | | | |
| **Message** | periodic date range - date end not encoded for slave object of a master object where PEREND exists. | | | | | | | | | |
| **Solution** | Populate temporal attribute PEREND on slave objects to match the master object. | | | | | **Conformity** | S-101 Annex A | | | |
| **Test Case No. 1** | periodic date range - date end of slave (LightAirObstruction) object is not defined. | | | | | | | | | |
|  | | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | **FOID** | | | | **VRID** |
| 32-21-46.98S 061-12-31.49E | | LightAirObstruction(P) | periodic date range - date end = undefined;  status=5 | | FE-71 | 1810\_11562328\_63050 | | | | (P)41 |
| 32-21-46.98S 061-12-31.49E | | BeaconSpecialPurposeGeneral (P) | periodic date range - date end = 20120624;  status=5 | | FE-77 | 1810\_11562329\_63050 | | | | (P)41 |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | S101\_A\_256: An error “periodic date range - date end not encoded for slave object of a master object where periodic date range - date end exists” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |