Redmine #638 solution:

Replaced tOpOK by tOpOk
Replaced opOK by opOk

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| **sCtl28 DOns** | **Verify the MirrorBlockedCommand and FC=OR attributes opOk, OpRcvd, tOpOk** | [ ]  Passed[ ]  Failed[ ]  Inconclusive |
| IEC 61850-7-2 Subclause 20.2 and 20.3IEC 61850-7-4 Annex AIEC 61850-8-1 Subclause 20TISSUE #1676 (multiple figures for control) |
| Expected result1) and 3) * Operate is accepted, DUT sends reports/GOOSE with OpRcvd=T and then OpRcvd=F and opOk=T with updated tOpOk
* DUT send report/GOOSE with opOk=F

2), 4), 6) and 8)* DUT returns Operate response- and sends reports/GOOSE with only OpRcvd=T and then OpRcvd=F

5) and 7) * Operate is accepted, DUT sends reports/GOOSE with OpRcvd=T, then OpRcvd=F, then opOk=T and then opOk=F
 |
| Test descriptionConfigure a dataset with the opOk, OpRcvd, tOpOk with FC=OR and enable a GOOSE control block (when supported) and a report control block with this dataset and trigger data-change. Equipment simulator does not change the position. When no FC=OR are supported just perform step 5 and 7. Beh = on 1. Client sends correct Operate with test=false
2. Client sends correct Operate with test=true

Change Beh = test when supported1. Client sends correct Operate with test=true
2. Client sends correct Operate with test=false

Change Beh = test/blocked when supported1. Client sends correct Operate with test=true
2. Client sends correct Operate with test=false

Change Beh = blocked when supported1. Client sends correct Operate with test=false
2. Client sends correct Operate with test=true
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| Comment |

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| **sCtl28 SBOns** | **Verify the MirrorBlockedCommand and FC=OR attributes opOk, OpRcvd, tOpOk** | [ ]  Passed[ ]  Failed[ ]  Inconclusive |
| IEC 61850-7-2 Subclause 20.2 and 20.3IEC 61850-7-4 Annex AIEC 61850-8-1 Subclause 20TISSUE #1676 (multiple figures for control) |
| Expected result1) and 3) * Select is accepted
* Operate is accepted, DUT sends reports/GOOSE with OpRcvd=T and then OpRcvd=F and opOk=T with updated tOpOk
* DUT send report with opOk=F

2), 4), 6) and 8)* Select is accepted
* DUT returns Operate response- and sends reports/GOOSE with only OpRcvd=T and then OpRcvd=F

5) and 7) * Select is accepted
* Operate is accepted, DUT sends reports/GOOSE with OpRcvd=T, then OpRcvd=F, then opOk=T, and then opOk=F
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| Test descriptionConfigure a dataset with the opOk, OpRcvd, tOpOk with FC=OR and enable a GOOSE control block (when supported) and a report control block with this dataset and trigger data-change. Equipment simulator does not change the position. When no FC=OR are supported just perform step 5 and 7. Beh = on 1. Client sends correct Select and Operate with test=false
2. Client sends correct Select and Operate with test=true

Change Beh = test when supported1. Client sends correct Select and Operate with test=true
2. Client sends correct Select and Operate with test=false

Change Beh = test/blocked when supported1. Client sends correct Select and Operate with test=true
2. Client sends correct Select and Operate with test=false

Change Beh = blocked when supported1. Client sends correct Select and Operate with test=false
2. Client sends correct Select and Operate with test=true
 |
| Comment |

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| **sCtl28 DOes** | **Verify the MirrorBlockedCommand and FC=OR attributes opOk, OpRcvd, tOpOk** | [ ]  Passed[ ]  Failed[ ]  Inconclusive |
| IEC 61850-7-2 Subclause 20.2 and 20.3IEC 61850-7-4 Annex AIEC 61850-8-1 Subclause 20TISSUE #1676 (multiple figures for control) |
| Expected result1) and 3) * Operate is accepted, DUT sends reports/GOOSE with OpRcvd=T and then OpRcvd=F and opOk=T with updated tOpOk
* DUT send CommandTermination- with addCause time-limit-over, DUT send report with opOk=F

2), 4), 6) and 8)* DUT returns Operate response- and sends reports/GOOSE with only OpRcvd=T and then OpRcvd=F

5) and 7) * Operate is accepted, DUT sends reports/GOOSE with OpRcvd=T, then OpRcvd=F, then opOk=T, and then opOk=F
* DUT send CommandTermination- with addCause blocked-by-mode
 |
| Test descriptionConfigure a dataset with the opOk, OpRcvd, tOpOk with FC=OR and enable a GOOSE control block (when supported) and a report control block with this dataset and trigger data-change. Equipment simulator does not change the position. When no FC=OR are supported just perform step 5 and 7. Beh = on 1. Client sends correct Operate with test=false
2. Client sends correct Operate with test=true

Change Beh = test when supported1. Client sends correct Operate with test=true
2. Client sends correct Operate with test=false

Change Beh = test/blocked when supported1. Client sends correct Operate with test=true
2. Client sends correct Operate with test=false

Change Beh = blocked when supported1. Client sends correct Operate with test=false
2. Client sends correct Operate with test=true
 |
| Comment |

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| **sCtl28 SBOes** | **Verify the MirrorBlockedCommand and FC=OR attributes opOk, OpRcvd, tOpOk** | [ ]  Passed[ ]  Failed[ ]  Inconclusive |
| IEC 61850-7-2 Subclause 20.2 and 20.3IEC 61850-7-4 Annex AIEC 61850-8-1 Subclause 20TISSUE #1676 (multiple figures for control) |
| Expected result1) and 3) * SelectWithValue is accepted
* Operate is accepted, DUT sends reports/GOOSE with OpRcvd=T and then OpRcvd=F and opOk=T with updated tOpOk
* DUT send CommandTermination- with addCause time-limit-over, DUT send report with opOk=F

2), 4), 6) and 8)* When the DUT returns SelectWithValue response- it will send no report/GOOSE.
* When SelectWithValue is accepted continue
* DUT returns Operate response- and sends reports/GOOSE with only OpRcvd=T and then OpRcvd=F

5) and 7) * SelectWithValue is accepted
* Operate is accepted, DUT sends reports/GOOSE with OpRcvd=T, then OpRcvd=F, then opOk=T, and then opOk=F
* DUT send CommandTermination- with addCause blocked-by-mode
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| Test descriptionConfigure a dataset with the opOk, OpRcvd, tOpOk with FC=OR and enable a GOOSE control block (when supported) and a report control block with this dataset and trigger data-change. Equipment simulator does not change the position. When no FC=OR are supported just perform step 5 and 7. Beh = on 1. Client sends correct SelectWithValue and Operate with test=false
2. Client sends correct SelectWithValue and when accepted Operate with test=true

Change Beh = test when supported1. Client sends correct SelectWithValue and Operate with test=true
2. Client sends correct SelectWithValue and when accepted Operate with test=false

Change Beh = test/blocked when supported1. Client sends correct SelectWithValue and Operate with test=true
2. Client sends correct SelectWithValue and when accepted Operate with test=false

Change Beh = blocked when supported1. Client sends correct SelectWithValue and Operate with test=false
2. Client sends correct SelectWithValue and when accepted Operate with test=true
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| CommentFor SBOes it’s not mandatory to perform all checks during the SelectWithValue (PIXIT Ct18) |