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| *TEST CASE DESCRIPTION* | | | | | | | |
|  | | Code | Version | | Title | | |
| Test Case | | 3.31.3 | 1 | | RBC/RBC handover when only one modem is available. | | |
|
| Baseline applicable | | Baseline 3 | | | | | |
| Test case author | | ADIF | | | | | |
| Test Objective(s) | | Verify that the EVC correctly performs the handover from RBC1 to RBC2 when there is only one modem available. | | | | | |
| Diagram | |  | | | | | |
| Starting conditions | | Level | | | | 2 | |
| Mode | | | | FS | |
| Train Speed (km/h) | | | | NR | |
| Additional starting conditions | | | | The EVC is in degraded mode and has only one modem available. Communication with RBC1 established. | |
| Sequence of the Test Case | | Checkpoints | | | | | |
| Step | Step description | Interfaces | | Description of what to be tested at the interface | | | OK? |
| 1 | The train receives a MA from RBC1 that goes up to the border with RBC2. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 3  L\_ENDSECTION = D1 | | |  |
| 2 | The EVC receives from RBC1 a RBC transition announcement to RBC2 within a given distance. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 3/24/33  Packet 131 (LRBG1)  D\_RBCTR = D2 | | |  |
| NID\_RBC= RBC2  NID\_RADIO=RADIO2 | | |
| 3 | The train receives from RBC1 a MA that includes the transition border based on the information received by the RBC2. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 3  L\_ENDSECTION = D3 > D2(LRBG1) | | |  |
| 4 | The EVC sends to RBC1 a position report when the max safe front end passes through the transition border. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | estimated front end = D2(LRBG1) - L\_DOUBTUNDER | | |  |
| Message 136  Packet 0 | | |
| 5 | When passing through the transition border the EVC receives by balise an immediate transition order to RBC2. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | Packet 131 (LRBG2)  D\_RBCTR=0. | | |  |
| NID\_RBC=RBC2  NID\_RADIO=RADIO2 | | |
| 6 | The EVC sends to the RBC1 another position report when passes through the transition border with the min safe rear end. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | estimated front end (LRBG2) = L\_TRAIN + L\_DOUBTOVER. | | |  |
| Message 136  Packet 0 | | |
| 7 | The EVC receives the end of communication session with RBC1. | DMI (O) | | Safe radio connection “Connection Up” symbol disappears | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 3/24/33  Packet 42  Q\_RBC=0  NID\_RBC=RBC1 | | |  |
| Message 156  Message 39 | | |
| 8 | After establishing a safe connection with the EVC, the EVC starts a new communication session with RBC2 and sends the train data. | DMI (O) | | Safe radio connection “Connection Up” symbol | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 155  Message 32  M\_VERSION | | |  |
| Message 159  Message 129  Packet 0  Message 8  DMI\_SYMB\_STATUS  ST03 | | |
| 9 | The train receives and sends new messages from/to RBC2. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | Messages train/trackside and vice versa | | |  |
| Final state | | Level | | 2 | | |  |
| Mode | | FS | | |  |
| Train Speed (km/h) | | NR | | |  |
| Other parameters | | Communication with RBC2 established | | |  |
| Final Test Result | |  | | | | | |
| Field of Application | | Spain | | | | | |
| Briefing instructions | | If the period of time between the reception of the last message from RBC1 and the first one from RBC2 is higher than the value T\_NVCONTACT, the equipment will apply the reaction specified by the variable M\_NVCONTACT, as long as the EVC has implemented the change request 508 (Included in Subset-108 v110). | | | | | |