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| *TEST CASE DESCRIPTION* | | | | | | | |
|  | | Code | Version | | | Title | |
| Test Case | | Thales-1 | 1 | | | RBC/RBC Handover management. Two consecutive handovers in FS mode. | |
|
| Baseline applicable | | Baseline 2 (2.3.0 d) | | | | | |
| Test case author | | Thales | | | | | |
| Test Objective(s) | | Verify that the EVC performs two consecutive RBC/RBC handover when the train is running from one RBC area to two consecutive ones. | | | | | |
| Diagram | |  | | | | | |
| Starting conditions | | Level | | | 2 | | |
| Mode | | | FS | | |
| Train Speed (km/h) | | | Maximum permitted speed | | |
| Additional starting conditions | | | The radio communication session is established with the RBC1.  A movement authority which reaches the RBC1/RBC2 Handover border is stored on board. | | |
| Sequence of the Test Case | | Checkpoints | | | | | |
| Step | Step description | Interfaces | | Description of what to be tested at the interface | | | OK? |
| 1 | The RBC1 sends an announcement to perform a handover from RBC1 (Handing Over RBC) to the RBC2 (Accepting RBC). | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 3/24/33 (LRBG1) Packet 131   NID\_RBC (2)  NID\_RADIO (2)  D\_RBCTR = D1 | | |  |
| 2 | The establishment of a communication session is initiated by the EVC with the RBC2. | DMI (O) | | Connection established with RBC2 | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 155 Message 32 Message 159 Message 129 Message 8 | | |  |
| 3 | The train receives from RBC1 an updated MA further than the RBCs border location as a result of the interchange of information between RBC1 and RBC2. | DMI (O) | | MA up to D2 | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 3/33 (LRBG2)  L\_ENDSECTION =D2  D2 (LRBG2) > D1 (LRBG1) | | |  |
| 4 | The EVC sends to both RBCs (RBC1 and RBC2) a position report when the max safe front end has passed the border location. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | estimated front end > D1(LRBG1)-L\_DOUBTUNDER  Message 136  Packet 0  Message 136  Packet 0 | | |  |
| 5 | At the border location the train receives from balise group an order to switch to RBC2. | DMI (O) | |  | | |  |
| DMI (I) | | Driver selects Data Entry | | |  |
| JRU | | Packet 131 (LRBG2)  NID\_RBC (2)  NID\_RADIO (2)  D\_RBCTR = 0 | | |  |
| 6 | The EVC sends to the RBC1 a position report when the min safe rear end has passed the border location. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | estimated front end (LRBG2) > L\_TRAIN+L\_DOUBTOVER  Message 136   Packet 0 | | |  |
| 7 | The RBC1 sends an order to terminate communication session. Communication session is terminated with the RBC1. | DMI (O) | | No connection established with RBC1 | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 3/24/33  Packet 42  Q\_RBC=0 Message 156 Message 39 | | |  |
| 8 | The RBC2 sends a movement authority up to the RBC2/RBC3 border | DMI (O) | | MA up to D3 | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 3/33 (LRBG3) Packet 15  L\_ENDSECTION=D3  Packet 21  Packet 27 | | |  |
| 9 | The RBC2 sends an announcement to perform a handover from RBC2 (Handing Over RBC) to the RBC3 (Accepting RBC). | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 3/24/33 (LRBG3) Packet 131   NID\_RBC (3)  NID\_RADIO (3)  D\_RBCTR = D3 | | |  |
| 10 | The establishment of a communication session is initiated by the EVC with the RBC3. | DMI (O) | | Connection established with RBC3 | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 155 Message 32 Message 159 Message 129 Message 8 | | |  |
| 11 | The train receives from RBC2 an updated MA further than the RBCs border location as a result of the interchange of information between RBC2 and RBC3. | DMI (O) | | MA up to D4 | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 3/33 (LRBG4)  L\_ENDSECTION =D4  D4 (LRBG4) > D3 (LRBG3) | | |  |
| 12 | The EVC sends to both RBCs (RBC2 and RBC3) a position report when the max safe front end has passed the border location. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | estimated front end > D3(LRBG3)-L\_DOUBTUNDER  Message 136  Packet 0  Message 136  Packet 0 | | |  |
| 13 | At the border location the train receives from balise group an order to switch to RBC3. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | Packet 131 (LRBG3)  NID\_RBC (3)  NID\_RADIO (3)  D\_RBCTR = 0 | | |  |
| 14 | The EVC sends to the RBC2 a position report when the min safe rear end has passed the border location. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | estimated front end (LRBG3) > L\_TRAIN+L\_DOUBTOVER  Message 136   Packet 0 | | |  |
| 15 | The RBC2 sends an order to terminate communication session. Communication session is terminated with the RBC1. | DMI (O) | | No connection established with RBC2 | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 3/24/33  Packet 42  Q\_RBC=0 Message 156 Message 39 | | |  |
| Final state | | Level | | 2 | | |  |
| Mode | | FS | | |  |
| Train Speed (km/h) | | NR | | |  |
| Other parameters | | The radio communication session is established with the RBC3. | | |  |
| Final Test Result | |  | | | | | |
| Field of Application | | Spain | | | | | |
| Briefing instructions | | Test case should be performed with two active modems. | | | | | |