|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *TEST CASE DESCRIPTION* | | | | | | | |
|  | | Code | Version | | Title | | |
| Test Case | | 3.32.1 | 2 | | Key generation and installation. | | |
|
| Baseline applicable | | Baseline 3 | | | | | |
| Test case author | | ADIF | | | | | |
| Test Objective(s) | | Verify that a key generated by KMC(IM) can be installed and used in the EVC. | | | | | |
| Diagram | |  | | | | | |
| Starting conditions | | Level | | | | 2 | |
| Mode | | | | SB | |
| Train Speed (km/h) | | | | 0 | |
| Additional starting conditions | | | | Case 1: The RU has its own KMC:  The KMC-1 (IM) and the KMC-2 (RU) share the interworking K-KMC key.  The RBC and the EVC have the corresponding KTRANS keys for transmitting the KMAC from their own KMC to the ETCS entities.  The KMAC keys for the RBC and train are installed by means of the installation archives generated by the corresponding KMC.  Case 2: The EVC belongs to the KMC(IM) domain:  The RBC and the EVC have the corresponding KTRANS keys for transmitting the KMAC from the KMC (IM) to the ETCS entities.  The KMAC keys for the RBC and train are installed by means of the installation archives generated by the KMC(IM). | |
| Sequence of the Test Case | | Checkpoints | | | | | |
| Step | Step description | Interfaces | | Description of what to be tested at the interface | | | OK? |
| 1 | The EVC establishes a communication session with the RBC. | DMI (O) | | Safe radio connection “Connection Up” symbol | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 155  Message 32  Message 159  Message 129  Message 8  DMI\_SYMB\_STATUS  ST03 | | |  |
| 2 | “Start” is selected. | DMI (O) | |  | | |  |
| DMI (I) | | “Start” selection | | |  |
| JRU | | M\_DRIVERACTION = 19  Message 132  Packet 0/1 | | |  |
| 3 | The RBC sends a movement authority to run in SR. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 2 | | |  |
| 4 | The driver acknowledges SR mode. | DMI (O) | | SR Symbol | | |  |
| DMI (I) | | Acknowledgement of SR | | |  |
| JRU | | M\_DRIVERACTION=3 | | |  |
| M\_MODE =2  DMI\_SYMB\_STATUS  MO09 | | |
| Final state | | Level | | 2 | | |  |
| Mode | | SR | | |  |
| Train Speed (km/h) | | ≤ 100 | | |  |
| Other parameters | |  | | |  |
| Final Test Result | |  | | | | | |
| Field of Application | | Spain | | | | | |
| Briefing instructions | |  | | | | | |