DIN CEN/TS 18078:2024-12 (E)

Electronic fee collection - Measurement of interferences on tolling and tachograph devices from radio local area network devices operating in the 5,8 GHz frequency range - Test suite structure and test purposes; English version CEN/TS 18078:2024

Contents

Page

European foreword 4
Introduction 5
1 Scope 7
2 Normative references 7
3 Terms and definitions 7
4 Abbreviated terms 8
5 Interference tests on couples of interacting devices 9
5.1 Generalities 9
5.1.1 Regulations 9
5.2 Victim functions and devices 10
5.2.1 Tolling 10
5.2.2 Remote tachograph interrogation 10
5.3 Admitted combinations of devices 12
5.4 Interfering RLAN devices 12
5.4.1 Standards 12
5.4.2 Interferers 12
6 Test setup 13
6.1 General setup 13
6.2 Interferer 15
6.3 Measuring interferences 16
6.3.1 Acceptable interference 16
6.3.2 Test requirements for interference to the OBE 16
6.3.3 Test requirements for interference to the RSE 17
7 Test suite structure 19
7.1 Interfaces 19
7.1.1 Obe interface 19
7.1.2 Rse interface 19
7.2 Test transaction application 19
7.3 Logfile application 20
7.3.1 General 20
7.3.2 RSE logfile information 20
7.3.3 OBE logfile information 21
8 Test purposes 22
8.1 Generalities 22
8.2 Test purposes summary 22
8.3 Naming and format of test purposes 23
8.3.1 Naming 23
8.3.2 Format 23
8.4 Interferer towards the OBE 23

8.4.1 Test setup 23
8.4.2 Interference power level limit 24
8.4.3 Interferer timing 28
8.5 Interferer towards the RSE 30
8.5.1 Test setup 30
8.5.2 Interference power level limit 30
8.5.3 Interferer timing 31
Bibliography 32