ISO/TS 21719-2:2018-02 (E)

Electronic fee collection - Personalization of on-board equipment (OBE) - Part 2: Using dedicated short-range communication

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 2

3 Termsanddefinitions 2

4 Abbreviated terms and symbols 5

5 Conformance 6
5.1 General 6
5.2 Base standards 6
5.3 Main contents of an EFC Personalization AP 6

6 Personalization overview 7
6.1 Process 7
6.2 System architecture 7

7 OBE requirements 7
7.1 General 7
7.2 DSRC lower layer requirements 7
7.2.1 Supported DSRC stacks 7
7.2.2 CEN DSRC stack 8
7.3 OBE personalization functions 8
7.3.1 General 8
7.3.2 Initialization and termination 9
7.3.3 Retrieving OBE identifier 9
7.3.4 Writing of data 9
7.4 Security requirements 11
7.5 Transaction requirements 13

8 Personalization equipment requirements 13
8.1 General 13
8.2 DSRC lower layer requirments 13
8.2.1 Supported DSRC stacks 13
8.2.2 CEN DSRC stack 13
8.3 PE personalization functions 13
8.4 Security requirements 14
8.5 Transaction requirements 14

Annex A (normative) Security calculations 15

Annex B (normative) PICS proforma 20

Annex C (normative) Personalization of ES 200 674-1 compliant OBEs 25

Annex D (informative) Transaction example 30

Annex E (informative) Security computation example 35

Bibliography 39