

# ISO/TS 21719-2:2022-10 (E)

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

---

<b>Contents</b>		<b>Page</b>
<b>Foreword</b> .....		<b>iv</b>
<b>Introduction</b> .....		<b>v</b>
<b>1</b>	<b>Scope</b> .....	<b>1</b>
<b>2</b>	<b>Normative references</b> .....	<b>1</b>
<b>3</b>	<b>Terms and definitions</b> .....	<b>2</b>
<b>4</b>	<b>Abbreviated terms</b> .....	<b>4</b>
<b>5</b>	<b>Conformance</b> .....	<b>5</b>
5.1	General.....	5
5.2	Base standards.....	5
5.3	Main contents of an EFC personalization AP.....	5
5.4	Conformance statement.....	6
<b>6</b>	<b>Personalization overview</b> .....	<b>6</b>
6.1	Process.....	6
6.2	System architecture.....	6
<b>7</b>	<b>OBE requirements</b> .....	<b>6</b>
7.1	General.....	6
7.2	DSRC lower layer requirements.....	6
7.2.1	Supported DSRC stacks.....	6
7.2.2	CEN DSRC stack.....	7
7.3	OBE personalization functions.....	8
7.3.1	General.....	8
7.3.2	Initialization and termination.....	8
7.3.3	Retrieving the OBE identifier.....	8
7.3.4	Writing of data.....	8
7.4	Security requirements.....	11
7.5	Transaction requirements.....	12
<b>8</b>	<b>Personalization equipment requirements</b> .....	<b>13</b>
8.1	General.....	13
8.2	DSRC lower layer requirements.....	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.....	13
8.5	Transaction requirements.....	13
<b>Annex A (normative) Security calculations</b> .....		<b>14</b>
<b>Annex B (normative) PICS proforma</b> .....		<b>19</b>
<b>Annex C (normative) Personalization of OBE conforming to ETSI ES 200 674-1</b> .....		<b>24</b>
<b>Annex D (informative) Transaction example</b> .....		<b>29</b>
<b>Annex E (informative) Security computation examples</b> .....		<b>33</b>
<b>Bibliography</b> .....		<b>37</b>