

# ISO 13141:2024-02 (E)

## Electronic fee collection - Localization augmentation communication for autonomous systems

---

	Contents	Page
<b>Foreword</b>		v
<b>Introduction</b>		vi
<b>1 Scope</b>		1
<b>2 Normative references</b>		2
<b>3 Terms and definitions</b>		3
<b>4 Abbreviated terms</b>		4
<b>5 Application interface architecture</b>		5
<b>5.1 General</b>		5
<b>5.2 Services provided</b>		5
<b>5.3 Attributes</b>		6
<b>5.4 Contract and toll context</b>		6
<b>5.5 Use of lower layers</b>		6
<b>5.5.1 Supported DSRC communication stacks</b>		6
<b>5.5.2 The use of the CEN DSRC stack</b>		7
<b>6 Conformance</b>		7
<b>6.1 Conformance requirements</b>		7
<b>6.2 Conformance statement</b>		7
<b>6.3 Conformance evaluation and testing</b>		7
<b>7 Functions</b>		7
<b>7.1 General</b>		7
<b>7.2 Functional requirements</b>		7
<b>7.2.1 Minimum supported transaction details</b>		7
<b>7.2.2 Initialising communication</b>		8
<b>7.2.3 Writing of data</b>		8
<b>7.2.4 Termination of communication</b>		8
<b>7.3 Security</b>		8
<b>7.3.1 General</b>		8
<b>7.3.2 Authentication of RSE -- Access credentials</b>		9
<b>7.3.3 Authentication of LAC Data</b>		9
<b>8 Attributes</b>		9
<b>8.1 General</b>		9
<b>8.2 Data regarding location reference</b>		10
<b>8.3 Operational data</b>		11
<b>8.4 OBE contractual data</b>		11
<b>8.5 Security-related data</b>		12
<b>9 Transaction model</b>		12
<b>9.1 General</b>		12
<b>9.2 Initialisation phase</b>		13
<b>9.2.1 General structure</b>		13
<b>9.2.2 LAC application-specific contents of the BST</b>		13
<b>9.2.3 LAC application-specific contents of the VST</b>		13

9.3	Transaction phase .....	13
<b>Annex A (normative)</b>	<b>LACdatatype specifications .....</b>	<b>14</b>
<b>Annex B (normative)</b>	<b>PICS proforma for the data elements in the attribute .....</b>	<b>15</b>
<b>Annex C (informative)</b>	<b>ETSI/ES 200 674-1 communication stack usage for LAC applications .....</b>	<b>23</b>
<b>Annex D (informative)</b>	<b>IR communication usage for LAC applications .....</b>	<b>26</b>
<b>Annex E (informative)</b>	<b>ARIB DSRC communication stack usage for LAC applications .....</b>	<b>27</b>
<b>Annex F (informative)</b>	<b>LAC transaction example .....</b>	<b>29</b>
<b>Annex G (informative)</b>	<b>Use of this document for the EETS .....</b>	<b>31</b>
<b>Annex H (informative)</b>	<b>Using the WAVE communication stack for LAC applications .....</b>	<b>32</b>
<b>Bibliography .....</b>		<b>35</b>