

# DIN EN ISO 14819-3:2014-05 (E)

Intelligent transport systems - Traffic and travel information messages via traffic message coding - Part 3: Location referencing for Radio Data System - Traffic Message Channel (RDS-TMC) using ALERT-C (ISO 14819-3:2013)

---

<b>Contents</b>		<b>Page</b>
Foreword .....		4
Introduction .....		6
<b>1</b>	<b>Scope .....</b>	<b>7</b>
<b>2</b>	<b>Normative references .....</b>	<b>7</b>
<b>3</b>	<b>Abbreviated terms .....</b>	<b>7</b>
<b>4</b>	<b>Location coding .....</b>	<b>8</b>
4.1	General .....	8
4.2	Location tables .....	9
4.2.1	General .....	9
4.2.2	Versions and versioning of location tables .....	9
4.2.3	Exchanging location tables .....	10
4.2.4	Hierarchical structure .....	10
4.2.5	Offsets .....	11
4.2.6	Location types .....	12
4.2.7	Direction of the road .....	12
4.2.8	Country codes and location table numbers .....	12
4.2.9	Constraints .....	13
4.3	TMC Location categories, types and subtypes .....	13
4.4	Location table content .....	13
4.4.1	General .....	13
4.4.2	Nominal record content .....	13
4.4.3	Road descriptions .....	18
4.4.4	Names .....	18
4.4.5	Upward references .....	18
4.4.6	Offsets .....	19
4.4.7	Urban .....	19
4.4.8	Intersection reference .....	19
4.4.9	WGS 84 co-ordinates .....	19
4.4.10	InterruptsRoad .....	19
4.5	Detailed junction referencing .....	20
4.5.1	Conventional junctions .....	20
4.5.2	Complex junctions .....	20
4.5.3	Detailed coding of link roads .....	20
4.6	Detailed situation locations .....	21
4.6.1	Normal location referencing .....	21
4.6.2	Detailed location referencing .....	21
4.6.3	Precise location referencing .....	21
4.7	One and two way locations .....	21
4.7.1	Basic principles .....	21
4.7.2	Junctions .....	21
4.7.3	Locations having only an exit or entry and locations occurring on one side only .....	21
<b>Annex A (normative)</b>	<b>TMC Location categories, types and subtypes .....</b>	<b>24</b>

<b>A.1</b>	<b>General</b> .....	<b>24</b>
<b>A.2</b>	<b>Area locations</b> .....	<b>24</b>
<b>A.3</b>	<b>Linear locations</b> .....	<b>26</b>
<b>A.4</b>	<b>Point locations</b> .....	<b>28</b>
<b>Annex B (normative) Location table numbers</b> .....		<b>34</b>
<b>Annex C (normative) Detailed methods for the usage of location tables</b> .....		<b>37</b>
<b>C.1</b>	<b>Methods for referencing affected road sections</b> .....	<b>37</b>
<b>C.1.1</b>	<b>General</b> .....	<b>37</b>
<b>C.1.2</b>	<b>Pre-defined primary location + extent</b> .....	<b>37</b>
<b>C.1.3</b>	<b>Pre-defined primary and secondary locations</b> .....	<b>38</b>
<b>C.1.4</b>	<b>Distance markers (primary location + extent)</b> .....	<b>38</b>
<b>C.1.5</b>	<b>Distance markers (primary + secondary location)</b> .....	<b>39</b>
<b>C.1.6</b>	<b>Primary and secondary locations using pre-defined location, extent and distances</b> .....	<b>39</b>
<b>C.1.7</b>	<b>Primary and secondary locations using pre-defined locations + distances</b> .....	<b>40</b>
<b>C.1.8</b>	<b>Describing the extent of an event in ALERT-C</b> .....	<b>40</b>
<b>C.1.9</b>	<b>Co-ordinates (primary + secondary locations)</b> .....	<b>42</b>
<b>C.1.10</b>	<b>Proprietary referencing systems, e.g. GDF</b> .....	<b>42</b>
<b>C.1.11</b>	<b>Text location naming</b> .....	<b>42</b>
<b>C.1.12</b>	<b>Precise location referencing</b> .....	<b>42</b>
<b>C.2</b>	<b>Methods for referencing specific features</b> .....	<b>46</b>
<b>C.2.1</b>	<b>Parking facilities</b> .....	<b>46</b>
<b>C.2.2</b>	<b>Other isolated POIs</b> .....	<b>48</b>
<b>C.2.3</b>	<b>Parallel Roads</b> .....	<b>49</b>
<b>C.2.4</b>	<b>Interrupted Roads</b> .....	<b>51</b>
<b>C.3</b>	<b>Methods for identifying and exchanging location tables</b> .....	<b>52</b>
<b>C.3.1</b>	<b>Identifying versions of a location table</b> .....	<b>52</b>
<b>C.3.2</b>	<b>Exchanging location tables - the Location Table Exchange Format</b> .....	<b>52</b>
<b>Annex D (informative) Background information</b> .....		<b>72</b>
<b>D.1</b>	<b>Overall approach</b> .....	<b>72</b>
<b>D.1.1</b>	<b>General</b> .....	<b>72</b>
<b>D.1.2</b>	<b>Pre-defined locations</b> .....	<b>72</b>
<b>D.1.3</b>	<b>GDF features</b> .....	<b>73</b>