

# ISO 14229-2:2013-02 (E)

## Road vehicles - Unified diagnostic services (UDS) - Part 2: Session layer services

---

<b>Contents</b>		<b>Page</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, definitions and abbreviated terms .....</b>	<b>1</b>
<b>3.1</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>3.2</b>	<b>Abbreviated terms .....</b>	<b>2</b>
<b>4</b>	<b>Conventions .....</b>	<b>2</b>
<b>5</b>	<b>Document overview .....</b>	<b>3</b>
<b>6</b>	<b>Session layer services .....</b>	<b>4</b>
<b>6.1</b>	<b>General .....</b>	<b>4</b>
<b>6.2</b>	<b>Specification of session layer service primitives .....</b>	<b>6</b>
<b>6.3</b>	<b>Session data unit specification .....</b>	<b>7</b>
<b>7</b>	<b>Timing parameter definition .....</b>	<b>9</b>
<b>7.1</b>	<b>General application timing considerations .....</b>	<b>9</b>
<b>7.2</b>	<b>Application timing parameter definitions - defaultSession .....</b>	<b>10</b>
<b>7.3</b>	<b>Example for P4Server without enhanced response timing .....</b>	<b>15</b>
<b>7.4</b>	<b>Example for P4Server with enhanced response timing .....</b>	<b>16</b>
<b>7.5</b>	<b>Session timing parameter definitions for the non-default session .....</b>	<b>17</b>
<b>7.6</b>	<b>Client and server timer resource requirements .....</b>	<b>19</b>
<b>7.7</b>	<b>Error handling .....</b>	<b>20</b>
<b>8</b>	<b>Timing handling during communication .....</b>	<b>21</b>
<b>8.1</b>	<b>Physical communication .....</b>	<b>21</b>
<b>8.2</b>	<b>Functional communication .....</b>	<b>29</b>
<b>8.3</b>	<b>Minimum time between client request messages .....</b>	<b>36</b>
<b>Annex A (normative) T_PDU interface .....</b>		<b>43</b>
<b>Annex B (informative) Vehicle diagnostic OSI layer architecture examples .....</b>		<b>44</b>
<b>B.1</b>	<b>Vehicle diagnostic OSI layer gateway example .....</b>	<b>44</b>
<b>B.2</b>	<b>Vehicle diagnostic OSI layer CAN router example .....</b>	<b>45</b>
<b>B.3</b>	<b>Vehicle diagnostic OSI layer CAN switch example .....</b>	<b>46</b>
<b>Bibliography .....</b>		<b>47</b>