

# ISO/PAS 15118-202:2025-09 (E)

## Road vehicles - Vehicle to grid communication interface - Part 202: Extensible SECC Discovery Protocol and Event Notification Protocol

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
<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>2</b>
<b>5</b>	<b>Conventions .....</b>	<b>3</b>
<b>5.1</b>	<b>Provision identifiers .....</b>	<b>3</b>
<b>6</b>	<b>Extensible SECC Discovery Protocol .....</b>	<b>3</b>
<b>6.1</b>	<b>General .....</b>	<b>3</b>
<b>6.2</b>	<b>Message structure .....</b>	<b>4</b>
<b>6.2.1</b>	<b>General .....</b>	<b>4</b>
<b>6.2.2</b>	<b>ESDPSetupReq/Res .....</b>	<b>4</b>
<b>6.2.3</b>	<b>ESDPReq/Res .....</b>	<b>5</b>
<b>6.3</b>	<b>Communication .....</b>	<b>5</b>
<b>6.3.1</b>	<b>General .....</b>	<b>5</b>
<b>6.3.2</b>	<b>EVCC .....</b>	<b>6</b>
<b>6.3.3</b>	<b>SECC .....</b>	<b>7</b>
<b>6.4</b>	<b>Encoding .....</b>	<b>8</b>
<b>6.5</b>	<b>ESDP extensions .....</b>	<b>8</b>
<b>6.5.1</b>	<b>General .....</b>	<b>8</b>
<b>6.5.2</b>	<b>Charging Interface extension .....</b>	<b>10</b>
<b>6.5.3</b>	<b>Electrical Charging System extension .....</b>	<b>12</b>
<b>6.5.4</b>	<b>IPv6 Socket extension .....</b>	<b>13</b>
<b>6.5.5</b>	<b>TLS 1.2 Info extension .....</b>	<b>14</b>
<b>6.5.6</b>	<b>Charging Service extension .....</b>	<b>15</b>
<b>6.5.7</b>	<b>EMSP Info extension .....</b>	<b>19</b>
<b>6.5.8</b>	<b>AC Charging Parameters extension .....</b>	<b>19</b>
<b>6.5.9</b>	<b>Conductive Charging Interface Limitations extension .....</b>	<b>20</b>
<b>6.5.10</b>	<b>EV Characteristics extension .....</b>	<b>20</b>
<b>6.5.11</b>	<b>EVSE Characteristics extension .....</b>	<b>21</b>
<b>7</b>	<b>Event Notification Protocol .....</b>	<b>22</b>
<b>7.1</b>	<b>General .....</b>	<b>22</b>
<b>7.2</b>	<b>Message structure .....</b>	<b>22</b>
<b>7.3</b>	<b>Communication .....</b>	<b>23</b>
<b>7.3.1</b>	<b>General .....</b>	<b>23</b>
<b>7.3.2</b>	<b>EVCC .....</b>	<b>23</b>
<b>7.3.3</b>	<b>SECC .....</b>	<b>23</b>
<b>7.4</b>	<b>Encoding .....</b>	<b>24</b>
<b>7.5</b>	<b>ENP extensions .....</b>	<b>24</b>
<b>7.5.1</b>	<b>General .....</b>	<b>24</b>
<b>7.5.2</b>	<b>EVSE Grid Information extension .....</b>	<b>26</b>
<b>7.5.3</b>	<b>Grid Code Impact Level extension .....</b>	<b>27</b>
<b>7.5.4</b>	<b>EV Stop Reason extension .....</b>	<b>28</b>
<b>7.5.5</b>	<b>EVSE Stop Reason extension .....</b>	<b>29</b>
<b>7.5.6</b>	<b>EV Derating Reason extension .....</b>	<b>29</b>
<b>7.5.7</b>	<b>EVSE Derating Reason extension .....</b>	<b>30</b>
<b>8</b>	<b>Security considerations .....</b>	<b>32</b>
<b>Bibliography .....</b>		<b>33</b>