Overview: OCPP versions

OCPP 1.5
- June 2012
- SOAP
- 24x2 messages
- 42 data types
- 15 configuration keys

OCPP 1.6
- October 2015
- SOAP & JSON
- 60 use cases
- 28x2 messages
- 49 data types
- 43 configuration keys

OCPP 2.0
- March 2018
- JSON
- 116 use cases
- 65x2 messages
- 129 data types
- 85 configuration keys
- 260 test cases

+ Improvements
  + Smart Charging
  + JSON support
+ Improvements
  + Better documentation
  + More functionalities
OCPP 2.0 has more functionalities

<table>
<thead>
<tr>
<th>Functional ‘blocks’</th>
<th># Use cases</th>
<th>Δ  with 1.6</th>
</tr>
</thead>
<tbody>
<tr>
<td>A  Security</td>
<td>4</td>
<td>New</td>
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<tr>
<td>B  Provisioning</td>
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<td>Plus 5 use cases</td>
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<td>Plus 6 use cases</td>
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<td>D  Local Authorization list management</td>
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<td>E  Transactions</td>
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<td>Plus 2</td>
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<td>F  Remote control</td>
<td>6</td>
<td>Plus 1</td>
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<td>G  Availability</td>
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<td>H  Reservation</td>
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<td>I  Tariff &amp; Cost</td>
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<td>New</td>
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<td>J  Meter values</td>
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<td>Plus 1</td>
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<td>K  Smart charging</td>
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<td>Plus 10</td>
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<td>L  Firmware management</td>
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<td>M  15118 Certificate management</td>
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<td>P  Data Transfer</td>
<td>2</td>
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</tbody>
</table>
New: OCPP 2.0 Security extensions

- Secure firmware updates
- Security logging and event notification
- Secure authentication (key management for client side certificates)
- Secure communication (TLS)
Extended: Smart Charging

OCPP 1.6

- CSO

OCPP 2.0

- CSO
- Local Controller
- HEMS
- EV
New: 15118 support

- **Plug & Charge**
  (authentication using certificates in the EV)

- **Smart Charging after negotiations with the EV**

- **15118 certificate management**
  (15118 certificate installation and updates in the EV and charging station)
New: Device management

- Configuring a charging station
- Monitoring a charging station