

DOCKETED	
Docket Number:	22-EVI-04
Project Title:	Electric Vehicle Charging Infrastructure Reliability
TN #:	269175
Document Title:	OAL Notice of Approval In Part & Withdrawal in Part of Regulatory Action - Tracking & Improving Reliability of Electric Chargers
Description:	N/A
Filer:	Spencer Kelley
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	3/13/2026 1:36:55 PM
Docketed Date:	3/13/2026

**State of California
Office of Administrative Law**

In re:
California Energy Commission

Regulatory Action:

Title 20, California Code of Regulations

APPROVED:

Adopt sections: 3120, 3121, 3122, 3123,
3124, 3125, 3126, 3127,
3128, 3129, 3130, 3131(a),
3131(b), 3131(c), 3131(f),
3132, 3133, 3134, 3135

Amend sections: 2505, 2507

Repeal sections:

WITHDRAWN:

Adopt sections: 3131(d), 3131(e)

Amend sections:

Repeal sections:

**NOTICE OF APPROVAL IN PART AND
WITHDRAWAL IN PART OF REGULATORY
ACTION**

Government Code Section 11349.3

OAL Matter Number: 2026-0126-03

OAL Matter Type: Regular (S)


In this rulemaking action, the California Energy Commission adopts new regulations for recordkeeping and reporting to track the number of EV charging ports installed in California; for tracking the reliability of publicly or ratepayer funded direct current fast charging ports; for setting a 97 percent uptime standard for these charging ports; and for sharing real-time data on the availability and accessibility of publicly available charging infrastructure.

OAL approves the sections listed as APPROVED above pursuant to section 11349.3 of the Government Code. This regulatory action becomes effective on 4/1/2026.

The sections listed as WITHDRAWN above were withdrawn from OAL review pursuant to Government Code section 11349.3(c).

Please contact me at (916) 323-6809 or Sam.Micon@oal.ca.gov, or the OAL Reference Attorney at (916) 323-6815, if you have any questions about the resubmittal process. You may request the return of your rulemaking record by contacting the OAL Front Desk at (916) 323-6225.

Date: March 10, 2026



Sam Micon

For: Kenneth J. Pogue
Director

Original: Drew Bohan, Executive Director
Copy: Ross Daley

REGULAR

STATE OF CALIFORNIA--OFFICE OF ADMINISTRATIVE LAW

NOTICE PUBLICATION/REGULATION SUBMISSION

STD. 400 (REV. 10/2019)

For use by Secretary of State only

ENDORSED - FILED
in the office of the Secretary of State
of the State of California

MAR 10 2026

3:36 PM
[Signature]

OAL FILE NUMBERS	NOTICE FILE NUMBER Z-2025-0617-03	REGULATORY ACTION NUMBER 2026-0126-035	EMERGENCY NUMBER
For use by Office of Administrative Law (OAL) only			
OFFICE OF ADMINISTRATIVE LAW		OFFICE OF ADMIN. LAW 2026 JAN 26 PM 1:59	
Electronic Submission			
RECVD DATE 06/17/2025	PUBLICATION DATE 06/27/2025		
NOTICE		REGULATIONS	

AGENCY WITH RULEMAKING AUTHORITY California Energy Commission	AGENCY FILE NUMBER (If any) 22-EVI-04
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A. PUBLICATION OF NOTICE (Complete for publication in Notice Register)

1. SUBJECT OF NOTICE Track and Improving Reliability of EV Chargers	TITLE(S) 20	FIRST SECTION AFFECTED 2505	2. REQUESTED PUBLICATION DATE June 27, 2025
3. NOTICE TYPE <input checked="" type="checkbox"/> Notice re Proposed Regulatory Action <input type="checkbox"/> Other	4. AGENCY CONTACT PERSON Ross Daley	TELEPHONE NUMBER (916) 980-7949	FAX NUMBER (Optional)
OAL USE ONLY <input type="checkbox"/> Approved as Submitted <input type="checkbox"/> Approved as Modified <input type="checkbox"/> Disapproved/Withdrawn	NOTICE REGISTER NUMBER 2025,26-2	PUBLICATION DATE 6/27/25	

B. SUBMISSION OF REGULATIONS (Complete when submitting regulations)

1a. SUBJECT OF REGULATION(S) Tracking and Improving Reliability of CA's Electric Vehicle Chargers	1b. ALL PREVIOUS RELATED OAL REGULATORY ACTION NUMBER(S)
2. SPECIFY CALIFORNIA CODE OF REGULATIONS TITLE(S) AND SECTION(S) (Including title 26, if topics related)	
SECTION(S) AFFECTED (List all section number(s) individually. Attach additional sheet if needed.)	ADOPT Sec attached PER AGENCY REQUEST SAM
TITLE(S) Title 20	AMEND Division 2, Chapter 12 article 1, Chapter 7, article 2, sections 2505 and 2507 PER AGENCY REQUEST SAM
REPEAL	

3. TYPE OF FILING	<input checked="" type="checkbox"/> Regular Rulemaking (Gov. Code §11346)	<input type="checkbox"/> Certificate of Compliance: The agency officer named below certifies that this agency complied with the provisions of Gov. Code §§11346.2-11347.3 either before the emergency regulation was adopted or within the time period required by statute.	<input type="checkbox"/> Emergency Readopt (Gov. Code, §11346.1(h))	<input type="checkbox"/> Changes Without Regulatory Effect (Cal. Code Regs., title 1, §100)
	<input type="checkbox"/> Resubmittal of disapproved or withdrawn nonemergency filing (Gov. Code §§11349.3, 11349.4)	<input type="checkbox"/> Resubmittal of disapproved or withdrawn emergency filing (Gov. Code, §11346.1(b))	<input type="checkbox"/> File & Print	<input type="checkbox"/> Print Only
	<input type="checkbox"/> Emergency (Gov. Code, §11346.1(b))	<input type="checkbox"/> Other (Specify)		

4. ALL BEGINNING AND ENDING DATES OF AVAILABILITY OF MODIFIED REGULATIONS AND MATERIAL ADDED TO THE RULEMAKING FILE (Cal. Code Regs. title 1, §44 and Gov. Code §11347.1) 9-8-25 — 4-24-25	PER AGENCY REQUEST SAM
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5. EFFECTIVE DATE OF CHANGES (Gov. Code, §§ 11343.4, 11346.1(d), Cal. Code Regs., title 1, §100)	<input type="checkbox"/> Effective January 1, April 1, July 1, or October 1 (Gov. Code §11343.4(a))	<input type="checkbox"/> Effective on filing with Secretary of State	<input type="checkbox"/> \$100 Changes Without Regulatory Effect	<input checked="" type="checkbox"/> Effective other (Specify) 4-1-26	PER AGENCY REQUEST SAM
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6. CHECK IF THESE REGULATIONS REQUIRE NOTICE TO, OR REVIEW, CONSULTATION, APPROVAL OR CONCURRENCE BY, ANOTHER AGENCY OR ENTITY	<input checked="" type="checkbox"/> Department of Finance (Form STD. 399) (SAM §5660)	<input type="checkbox"/> Fair Political Practices Commission	<input type="checkbox"/> State Fire Marshal
<input type="checkbox"/> Other (Specify)			

7. CONTACT PERSON Ross Daley	TELEPHONE NUMBER (916) 980-7949	FAX NUMBER (Optional)	E-MAIL ADDRESS (Optional) Ross.Daley@energy.ca.gov
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8. I certify that the attached copy of the regulation(s) is a true and correct copy of the regulation(s) identified on this form, that the information specified on this form is true and correct, and that I am the head of the agency taking this action, or a designee of the head of the agency, and am authorized to make this certification.

SIGNATURE OF AGENCY HEAD OR SIGNEE <i>[Signature]</i>	DATE 6/16/2025
TYPED NAME AND TITLE OF SIGNATORY Drew Bohan, Executive Director	

For use by Office of Administrative Law (OAL) only
ENDORSED APPROVED
MAR 10 2026
Office of Administrative Law

List of sections adopted

3120, 3121, 3122, 3123, 3124, 3125, 3126, 3127, 3128, 3129, 3130, 3131, 3132, 3133,
3134, 3135.

EXPRESS TERMS

California Code of Regulations

Title 20. Public Utilities and Energy

Division 2. State Energy Resources Conservation and Development Commission

Chapter 7. Administration

Article 2. Disclosure of Commission Records

Sections 2505 and 2507

AND

**Chapter 12. Alternative and Renewable Fuel and Vehicle Technology Program
Regulations**

Articles 1 and 2

Chapter 7. Administration

Article 2. Disclosure of Commission Records

Sections 2505 and 2507 are amended as follows:

§ 2505: Designation of Confidential Records.

(a) Third Parties.

...[skipping subdivisions (a)(1), (a)(2), (a)(3), and (a)(4)]

(5) Automatic Designation. Information submitted by a private third party shall be designated confidential without an application for confidentiality if the requirements of subsections (a)(5)(A) and (B) of this Section are met. If the requirements of subsection (a)(5)(A) and (B) are not met, the Executive Director shall inform the private third party that the record will not be deemed confidential. Except as provided in Section 2507 of this Article, the record for which confidentiality was requested shall not be disclosed for fourteen days to allow the requirements of subsection (a)(5)(A) and (B) to be met or to allow the filing of an application pursuant to subsection (a)(1) of this section.

(A) The entity submitting the information shall label each individual item of the submittal that is entitled to be designated confidential.

(B) The entity submitting the information shall attest under penalty of perjury that the information submitted has not been previously released and that it falls within one of the following categories:

1. Information that is derived from energy consumption metering, energy load metering research projects, or energy surveys provided pursuant to Section 1343 or 1344 of Article 2 of Chapter 3, and that is one or more of the following:

- a. for the residential customer sector and the commercial customer sector — customer identifiers, energy consumption, and any other information that could allow a third party to uniquely identify a specific respondent;
- b. industrial major customer sector — all information;
- c. survey design information — all information used to design a survey, stratify billing records, devise a sample scheme, select a sample, sample specific end-users for participation in a survey or a pretest of a questionnaire or interview form.

...[skipping subdivisions (a)(5)(B)(2), (a)(5)(B)(3), (a)(5)(B)(4), (a)(5)(B)(5), (a)(5)(B)(6), (a)(5)(B)(7), (a)(5)(B)(8), and (a)(5)(B)(9)]

10. Information regarding a charger submitted pursuant to sections 3123 and 3125 if the information is one or more of the following:

- a. Information provided pursuant to section 3125(b).
- b. Information provided pursuant to section 3123(b)(2)(B) through (b)(2)(D), (b)(2)(M), and (b)(2)(P), unless the information relates to a publicly available charger or has been publicly disclosed, including without limitation, by submission to the National Renewable Energy Laboratory pursuant to California Code of Regulations, Title 13, Section 2360.4(k), or shared with third-parties pursuant to Title 23, Code of Federal Regulations, part 680, section 680.116(c).

...[skipping subdivisions (a)(6) through (d)]

Note: Authority cited: Sections 25213 and 25218(e), Public Resources Code; Section 3426.1(d), Civil Code; Section 1060, Evidence Code; and Sections ~~6253(a)~~ 7922.525(a) and 7927.705, Government Code. Reference: Sections 25223, 25322, 25364 and 25366, Public Resources Code; and *Bakersfield City School District v. Superior Court* (2004) 118 Cal.App.4th 1041.

§ 2507: Disclosure of Confidential Records.

...[skipping subdivisions (a), (b), (c), and (d)]

- (e) Unless an application for confidentiality is granted under section 2505(a)(3) specifying a different confidentiality term, data subject to an automatic confidentiality designation under section 2505(a)(5) will remain confidential in accordance with the following timelines:

...[skipping section 2507(e)(1), 2507(e)(2), 2507(e)(3), 2507(e)(4), and 2507(e)(5)]

6. Confidential data relating to chargers provided pursuant to Article 2 of Chapter 12 may be released without restriction no sooner than 10 years from the date of submittal.

- (f) The Executive Director may release records previously designated as confidential in the following circumstances:

- (1) where the confidential information has been masked or aggregated at the levels described below in subdivisions (A)-(C)(D)

...[skipping section 2507(f)(1)(A), 2507(f)(1)(B), and 2507(f)(1)(C)]

(D) Confidential data relating to chargers provided pursuant to Article 2 of Chapter 12 may be disclosed at any time if the data is aggregated as follows:

1. At the county level by year and customer sectors; or
2. To such a level that the disclosure includes the data from three or more entities by year and customer sectors.

...[skipping the remainder of section 2505]

...[skipping the remainder of Chapter 7, Chapter 8, Chapter 9, Chapter 10, and Chapter 11]

Article 1 of Chapter 12 is amended as follows:

Chapter 12. ~~Alternative and Renewable Fuel and Vehicle Technology Program Regulations~~ Fuels and Transportation

Article 1. General Provisions Regarding Clean Transportation Program Project Funding

...[skipping the remainder of Article 1]

Note: Authority cited: Sections 25213 and 25218(e), Public Resources Code; and Section ~~6253(a)~~ 7922.525(a), Government Code. Reference: Sections 25223, 25322 and 25366, Public Resources Code.

Article 2 is added to Chapter 12 as follows:

Article 2. EV Charger Data and Reliability Standards

§ 3120: Scope.

(a) This Article applies to all the following:

- (1) All charging station operators and charging network providers of one or more AC Level 2 or DCFC installed in California excluding any temporary charger or off-grid charger.
- (2) All entities that provide or receive any incentive from a California state agency or through a charge on California ratepayers to install one or more AC Level 2 or DCFC that are installed in California on or after January 1, 2024, other than at a residential real property containing four or fewer dwelling units, excluding any temporary charger and off-grid charger.
- (3) All site hosts of any publicly or ratepayer funded AC Level 2 or DCFC as defined in section 3121.
- (4) All charging network providers that the CEC has enrolled to be, or that have applied to the CEC to be, enrolled charging network providers pursuant to section 3131.

Note: Authority cited: Sections 25210, 25213, 25216.5, 25218(e), 25231.5, 25301, 25302, 25303, 25304, 25305, 25400, 25401, 25601, 25602, 25618, Public Resources Code; Reference: Sections 25210, 25216.5, 25231.5, 25300, 25301, 25302, 25303, 25304, 25305, 25324, 25400, 25401, 25601, 25602, 25618, Public Resources Code.

§ 3121: Definitions.

(a) In this Article, the following definitions apply:

- (1) "AC Level 2" means a charger that operates on a circuit greater than or equal to 208 volts and transfers alternating-current (AC) electricity to a device in an EV that converts alternating current to direct current to charge an EV battery.
- (2) "Application programming interface" or "API" means a type of software interface that offers service to other pieces of software. An API allows two or more computer programs to communicate with each other.
- (3) "Charger" means a device with one or more charging ports and connectors for charging EVs. Also referred to as electric vehicle supply equipment (EVSE).
- (4) "Charging network" means a collection of chargers located on one or more property(ies) that are connected via digital communications to manage the facilitation of payment, the facilitation of electrical charging, and any related data requests.
- (5) "Charging network provider" means the entity that operates the digital communication network that remotely manages the chargers including, but not limited to, authorizing customer transactions and monitoring charger operative

- status. A charging network provider can also be a charging station operator or a charger manufacturer.
- (6) "Charging port" means the system within a charger that charges one EV. A charging port can have multiple connectors, but it can provide power to charge only one EV through one connector at a time.
- (7) "Charging session" means an event starting when a user or a vehicle initiates a refueling event and stops when a user or a vehicle ends a refueling event.
- (8) "Charging station" means the area in the immediate vicinity of one or more chargers and includes the charger, supporting equipment, parking areas adjacent to the charger, and lanes for vehicle ingress and egress.
- (9) "Charging station management system" means a system that can be used to operate a charger, to authorize use of the charger, or to record or report charger data, such as by using OCPP.
- (10) "Charging station operator" means the entity that owns the charger and supporting equipment at one or more charging stations. Although this entity can delegate responsibility for certain aspects of charging station operation and maintenance to subcontractors, this entity retains responsibility for operation and maintenance of chargers and supporting equipment. The charging station operator and the charging network provider can be the same entity.
- (11) "Connector" means a device that attaches an EV to a charging port in order to transfer electricity.
- (12) "Corrective maintenance" means maintenance that is carried out after failure detection and is aimed at restoring an asset to a condition in which it can perform its intended function.
- (13) "Data dictionary" means two data reporting specifications, the Semiannual Charger Data Reporting Specification (July 29, 2025) and the Hourly Charger Data Reporting Specification (July 29, 2025), which are incorporated by reference in sections 3123 and 3125 of this Article.
- (14) "Direct current fast charger" (DCFC) means a charger that enables rapid charging by delivering direct-current (DC) electricity to an EV's battery.
- (15) "Downtime" means a period of time that a charger is not capable of successfully dispensing electricity or otherwise not functioning as designed. Downtime is calculated pursuant to Section 3124(c).
- (16) "Electric utility" means any person engaged in, or authorized to engage in, generating, transmitting, or distributing electric power by any facilities, including, but not limited to, any such person who is subject to the regulation of the Public Utilities Commission.
- (17) "Electric vehicle" or "EV" means a vehicle that is either partially or fully powered on electric power received from an external power source. For the

purposes of these regulations, this definition does not include golf carts, electric bicycles, or other micromobility devices.

(18) "Enrolled charging network provider" means a charging network provider that meets the technical and administrative criteria of Section 3131 of this Article and is granted the status of an enrolled charging network provider by the Commission pursuant to Section 3131(c)(2).

(19) "Electric vehicle supply equipment" or "EVSE" means a "charger" as defined.

(20) "Executive Director" means the Executive Director of the Energy Commission and anyone the Executive Director designates as an agent.

(21) "Fleet charger" means a charger that is not publicly available, as defined in this section, is not installed at a single-family residence or a multifamily dwelling, as defined in this section, and either:

(A) The charger is used solely to charge commercial vehicles, as defined in section 260 of the California Vehicle Code, registered to the charging station operator or their contractors or subcontractors; or

(B) The charger is used solely to charge commercial vehicles and the charger is not accessible to charge except for those with a preexisting contract or preexisting access agreement with the charging station operator that guarantees a minimum uptime during the period of the contract or access agreement.

(22) "Funding entity" means any entity that disburses funds from a California state agency or through a charge on ratepayers to a funding recipient to install one or more chargers or charging stations that are installed on or after January 1, 2024, in California other than at a residential real property containing four or fewer dwelling units. There may be multiple funding entities as to a charger or charging station. If the same funds are disbursed sequentially through multiple entities to a funding recipient, then the funding entity for purposes of this Article is the entity that disburses the funds most directly to the funding recipient.

(23) "Funding recipient" means any entity that receives any incentive from a California state agency or through a charge on California ratepayers to install one or more chargers or charging stations that are installed on or after January 1, 2024, in California other than at a residential real property containing four or fewer dwelling units.

(24) "Hardware" means the machines, wiring, and other physical components of an electronic system including onboard computers and controllers.

(25) "Incentive" means funds received from a state agency or a charge on ratepayers to install or operate a charger or charging station, including any electrical equipment up to the first meter or submeter. Incentive excludes funds for electrical distribution infrastructure beyond the first meter or submeter, and excludes funds for other preparations of the immediate vicinity of a charger or

charging station, other supporting equipment, parking areas adjacent to the chargers, or lanes for vehicle ingress and egress. Incentive also excludes credits generated under the Low Carbon Fuel Standard program established by the California Air Resources Board under Title 17, California Code of Regulations, section 95480 et seq.

(26) "Inoperative State" means the charger or charging port is not operational.

(27) "Installed" means first attached or placed at a location and available for a charging session. The date a charger is "installed" is the date it is first available for a charging session. A charger that is replaced is newly "installed" as of the date it is first available for a charging session.

(28) "Maintenance" means any instance in which preventive or corrective maintenance is carried out on equipment.

(29) "Multifamily dwelling" means real property that is improved with, or consisting of, one or more buildings containing more than one dwelling unit that is intended for human habitation, excluding single-family residences as defined in this section.

(30) "Networked" means a charger that can receive or send commands or messages remotely from or to a charging network provider or is otherwise connected to a central management system, such as by using OCPP 2.0.1, for the purposes of charger management and data reporting. For the purposes of this Article, a charger that exclusively uses customer cell phones as carriers for communication between the charger and central system is not a networked charger.

(31) "Nonnetworked charger" means a charger that is not networked.

(32) "Off-grid charger" means a charger that does not draw power from an electric utility as defined in Public Resources Code section 25108, at any time.

(33) "Open Charge Point Interface" or "OCPI" means an open-source communication protocol that governs the communication among multiple charging networks, other communication networks, and software applications to provide information and services for EV drivers.

(34) "Open Charge Point Protocol" or "OCPP" means an open-source communication protocol that specifies communication between chargers and the charging networks that remotely manage the chargers.

(35) "Operational" or "up" means both the hardware and software of a charging port are both online and available for use, or in use, and the charging port is capable of successfully dispensing electricity.

(36) "Operative state" means the charger is operational.

(37) "Operative status" means an electronically transmitted communication from the charger or charging port to the central system indicating whether the charger or charging port is in an operative or inoperative state. Each communication shall

include fields for date-timestamp and any error codes associated with the operative status.

(38) "Preventive maintenance" means maintenance that is performed on physical assets to reduce the chances of equipment failure and unplanned machine downtime.

(39) "Private access," when referring to a charger, means a charger that is not a publicly available charger, as defined in this section.

(40) "Private residential charger" means a charger used solely for private use by residents of a residential real property containing four or fewer dwelling units, or any charger used solely for private use by residents of a single unit of a residential real property containing more than four dwelling units for which one or more of the residents of that unit would be the exclusive charging station operator(s) or site host(s) of the charger.

(41) "Publicly available," when referring to a charger, means a charger and associated parking space or spaces designated, such as by a property owner or lessee, to be available to, and accessible by, the public for any period of time. A charger designated, such as by a property owner or a lessee, to be available only to customers or visitors of the business is a publicly available charger for purposes of this chapter. Chargers and associated parking spaces located in parking garages or gated facilities are considered publicly available for purposes of this chapter if any member of the public can obtain vehicular access to the facility for free or through payment of a fee. If a charger and associated parking space is made available to the public for only limited time periods, that charger and associated parking space is considered a publicly available charger.

A publicly available charger does not include any of the following:

- (A) A workplace charging station if it is clearly marked and operated as available exclusively to the organization's employees or independent contractors.
- (B) A charger and associated parking spaces reserved exclusively to residents, tenants, visitors, or employees of: a private residence or common interest development; or a residential building adjacent to a private residence.
- (C) A charger provided by a manufacturer of electric vehicles for the exclusive use by vehicles it manufactures.
- (D) A research charger, as defined in this section.

(42) "Publicly or ratepayer funded charger" means a charger installed on or after January 1, 2024, except at a residential real property containing four or fewer dwelling units, for which an incentive was received from a state agency or a charge on ratepayers, or both, to install or operate the charger or its associated charging station. An incentive from a state agency includes, without limitation, any incentive funded in whole or in part from the Greenhouse Gas Reduction

Fund as defined in section 16428.8 of the Government Code. A charge on ratepayers includes, without limitation, charges on the customer of an investor-owned utilities, local publicly owned electric utility as defined in section 224.3 of the Public Utilities Code, or community choice aggregator as defined in section 331.1 of the Public Utilities Code. For purposes of these regulations, an incentive from a state agency includes, without limitation, pass-through funds for a federal grant administered by a state agency, for which the state agency is reimbursed, including but not limited to, the CEC's National Electric Vehicle Infrastructure Formula Program. A charger remains a "publicly or ratepayer funded charger" for six years from the date the charger is installed, and thereafter it is no longer a "publicly or ratepayer funded charger." If a "publicly or ratepayer funded charger" is replaced, its replacement charger is also a "publicly or ratepayer funded charger" for at least the remainder of the six years from the date the replaced charger was previously installed. If an incentive is received from a state agency or a charge on ratepayers, or both, to replace a charger, then the replacement charger is a "publicly or ratepayer funded charger" for six years from the date the replacement charger replaced the prior charger.

(43) "Recordkeeping and reporting agent" means the entity responsible to ensure timely compliance with the recordkeeping and reporting requirements of this Article. The identity of the recordkeeping and reporting agent is determined according to Section 3122.

(44) "Replaced" means that the charger has been substantially modified or substituted with another unit, as indicated by a change in the serial number, ID, or the model name.

(45) "Research charger" means a charger that is attached or placed solely to dispense electricity for testing or research; it is neither a fleet charger nor publicly available charger; and it is not used for workplace charging.

(46) "Residential real property containing four or fewer dwelling units" means a single-family residence or a multifamily dwelling containing four or fewer dwelling units.

(47) "Single-family residence" means a detached or semi-detached (semi-attached, side-by-side) residence, duplex, triplex, quadruplex, row house such that each row house shares at least one wall with another of the row houses even if not in a row, townhouse, or manufactured home, including mobilehome, unless the residence is part of a condominium as defined in Civil Code section 4125 or is located in a mobilehome park.

(48) "Site host" means the electric utility customer of record for electric service to the charger and can also be the charging network provider or the charging station operator of the charger.

(49) "Software" means a set of instructions, data, or programs used to operate computers and execute specific tasks.

(50) "Temporary charger" means a charger that is designed to be portable and available for use intermittently, is not attached at a location, and is not available for use at a single lot or parcel, or an adjacent lot or parcel, for more than 30 days in a calendar year. For the purposes of this definition, a charger that is made available for use for any portion of a day, is considered available for use for that full day.

(51) "Uninstalled" means the charging station operator took affirmative steps to make the charger unavailable for a charging session with intent to make it permanently unavailable, such that the number of chargers at the charging station is reduced by the number of uninstalled chargers for at least one year. Affirmative steps required to qualify as "uninstalled" include at least labeling the charger in a way that notifies drivers that it is not operational without the need to interact with the charger and updating the data field shared pursuant to section 3130(a)(6) to be consistent with uninstalled status. Mere failure to repair a malfunctioning charger does not make it "uninstalled."

(52) "Uptime" means the time that a charger is installed during a reporting period excluding downtime pursuant to section 3124(c) and (d).

(53) "Workplace charging" means an EV charger and its associated parking space is provided by an organization primarily to serve its employees and independent contractors at the organization's place of business.

Note: Authority cited: Sections 25210, 25213, 25216.5, 25218(e), 25231.5, 25301, 25302, 25303, 25304, 25305, 25400, 25401, 25601, 25602, 25618, Public Resources Code; Reference: Sections 25210, 25216.5, 25231.5, 25300, 25301, 25302, 25303, 25304, 25305, 25324, 25400, 25401, 25601, 25602, 25618, Public Resources Code.

§ 3122: The Recordkeeping and Reporting Agent.

- (a) The recordkeeping and reporting agent shall be responsible to ensure timely compliance with the recordkeeping and reporting requirements of this Article.
 - (1) The recordkeeping and reporting agent may designate one or more entities to fulfill the responsibilities of this Article, but the recordkeeping and reporting agent remains responsible to ensure compliance.
 - (2) If there is more than one recordkeeping and reporting agent for a charger, then compliance with any requirements of this Article by any one recordkeeping and reporting agent fulfills those requirements as to the others.
- (b) Except as to a publicly or ratepayer funded charger as provided in subdivision (c) of this section, the recordkeeping and reporting agent for a charger is as follows:
 - (1) Each charging network provider that operates the digital communication network that remotely manages a charger during a reporting period is its recordkeeping and reporting agent.

(2) If there is no charging network provider for a charger during a reporting period, then each charging station operator of the charger is its recordkeeping and reporting agent.

(c) Publicly or Ratepayer funded Chargers.

(1) For any networked publicly or ratepayer funded charger installed from January 1, 2024, through September 27, 2026, except as provided in subdivisions (c)(1)(A) or (c)(1)(B), the site host, or the funding recipient if designated pursuant to subdivision (c)(4) of this section, shall designate a charging network provider to serve as the recordkeeping and reporting agent.

(A) If the site host of a networked publicly or ratepayer funded charger, or the funding recipient if designated pursuant to subdivision (c)(4) of this section, is a charging network provider pursuant to section 3121, then it may itself serve as the recordkeeping and reporting agent, and if so, it need not retain another.

(B) If a networked publicly or ratepayer funded charger is not used to dispense electricity during a reporting period other than for testing or maintenance, then the site host, or the funding recipient if designated pursuant to subdivision (c)(4) of this section, is not required to retain a charging network provider for that charger for the period of non-operation, but if not, then it shall itself serve as the recordkeeping and reporting agent.

(2) For any networked publicly or ratepayer funded charger installed on or after September 28, 2026, except as provided in subdivisions (c)(2)(A) or (c)(2)(B), the site host, or the funding recipient if designated pursuant to subdivision (c)(4) of this section, shall designate an enrolled charging network provider to serve as the recordkeeping and reporting agent.

(A) If the site host of a networked publicly or ratepayer funded charger, or the funding recipient if designated pursuant to subdivision (c)(4) of this section, is an enrolled charging network provider pursuant to section 3131, then it may itself serve as the recordkeeping and reporting agent and if so, it need not retain another.

(B) If a networked publicly or ratepayer funded charger is not used to dispense electricity during a reporting period other than for testing or maintenance, then the site host, or the funding recipient if designated pursuant to subdivision (c)(4) of this section, is not required to retain an enrolled charging network provider for that charger for the period of non-operation, but if not, then it shall itself serve as the recordkeeping and reporting agent.

(3) For any nonnetworked publicly or ratepayer funded charger, the site host, or the funding recipient if designated pursuant to subdivision (c)(4) of this section, shall serve as the recordkeeping and reporting agent.

(4) Site hosts may, at any time within the first six years following the installation of a publicly or ratepayer funded charger, upon written or electronic notice to the funding recipient at least 60 days before the start of a reporting period,

designate the funding recipient to be responsible to fulfill the requirements of the site host under this Article regarding the publicly or ratepayer funded charger. The site host may revoke or reinstate the designation in the same manner. A funding recipient may, at any time more than six years of receiving the most recent incentive for a charger, terminate its duties under this subdivision upon written or electronic notice to the site host at least 60 days before the start of a reporting period.

Note: Authority cited: Sections 25210, 25213, 25216.5, 25218(e), 25231.5, 25301, 25302, 25303, 25304, 25305, 25400, 25401, 25601, 25602, 25618, Public Resources Code; Reference: Sections 25210, 25216.5, 25229, 25231.5, 25300, 25301, 25303, 25303, 25304, 25305, 25324, 25400, 25401, 25601, 25602, 25618, Public Resources Code.

§ 3123: Semiannual Reporting Requirement.

(a) Except as provided in subdivision (c) of this section, each recordkeeping and reporting agent or designee pursuant to section 3122, shall collect and submit to the Executive Director a semiannual report as specified in subdivision (b) for each charger for which the recordkeeping and reporting agent has one of the relationships described in section 3120, by the following deadlines:

- (1) H1 Reporting Period. For the period from January 1 through June 30 of a year, by July 31 of the same year.
- (2) H2 Reporting Period. For the period from July 1 through December 31 of a year, by January 31 of the following year.

(b) Except as provided in subdivision (c) of this section, each report required by subdivision (a) shall include the following for each charger:

- (1) Contact Information for each entity subject to section 3120.
 - (A) Contacts for the following roles:
 1. Each recordkeeping and reporting agent's name, address, telephone number, email address, and, if available, URL (website) address; provided, however, that if a parent entity is filing on behalf of a subsidiary entity, if a subsidiary entity is filing on behalf of a parent entity, or if an affiliate entity is filing on behalf of another affiliate entity, then each entity shall be clearly identified, and the information shall be provided for both entities.
 2. A statement whether each recordkeeping and reporting agent has one or more of the following roles with respect to the charger: charging network provider, charging station operator, funding recipient, or site host, as defined in section 3121.
 3. The charging network provider's name, address, telephone number, email address, and, if available, URL (website) address of the charging

- station operator, if the recordkeeping and reporting agent is not the charging station network provider.
4. The charging station operator's name, address, telephone number, email address, and, if available, URL (website) address, if the recordkeeping and reporting agent is not the charging station operator.
 5. The charging funding recipient's name, address, telephone number, email address, and, if available, URL (website) address.
 6. The charging site host's name, address, telephone number, email address, and, if available, URL (website) address.
- (B) Designee. If the recordkeeping and reporting agent designated one or more entities to fulfill the responsibilities of this Article pursuant to section 3122(a)(1), then each entity's name, address, telephone number, email address, and, if available, URL (website) address of the site host; provided, however, that if a parent entity is filing on behalf of a subsidiary entity, if a subsidiary entity is filing on behalf of a parent entity, or if an affiliate entity is filing on behalf of another affiliate entity, then each entity shall be clearly identified, and the information shall be provided for both entities.
- (C) Point of contact. The name, affiliation, if any, address, telephone number, and email address of an individual to contact concerning the statements pursuant to this Article. Only one individual may be listed as the contact except that the individual may identify another contact for use when the designated contact is temporarily unavailable.
- (2) Inventory Report. For each charger for which the recordkeeping and reporting agent has one of the relationships described in section 3120:
- (A) The date the charger was installed.
 - (B) Charger address.
 - (C) Geographic coordinates (latitude and longitude) of the charger to within one ten-thousandth of a degree of exact charging station location.
 - (D) Charger serial number.
 - (E) Make and model of charger.
 - (F) Maximum power delivery rating in kilowatts by charging port.
 - (G) Maximum charger output voltage.
 - (H) If a prior semiannual report did not list the serial number, a statement of whether the charger is in addition to or a replacement of a former charger, including the serial number of the charger replaced and the date the replacement charger was installed, if any.
 - (I) A statement as to whether the charger is networked or nonnetworked.
 - (J) A statement as to whether the charger is publicly or ratepayer-funded, or both.
 - (K) A statement of whether the charger provides alternating current or direct current to the EV.

- (L) Charging Ports — number of charging ports including the number of connectors and connector types (e.g., SAE J1772, J1772 Combo, CHAdeMO, SAE J3400 NACS) for each port available at the charger.
- (M) If networked:
 - 1. Charger ID — the unique identifier for the charger within the network provided by the charging network provider.
 - 2. Charging Port ID — the unique identifier for each port, unique within the context of the charging network provider servicing the charger.
- (N) Identify charger's primary use as follows:
 - 1. Primary site access (choose one):
 - a. Publicly available
 - b. Private access
 - 2. Primary vehicle type(s) served (all that apply):
 - a. Light-duty (gross vehicle weight rating less than or equal to 10,000 pounds)
 - b. Medium-duty (gross vehicle weight rating greater than 10,000 pounds and less than or equal to 26,000 pounds)
 - c. Heavy-duty (gross vehicle weight rating greater than 26,000 pounds)
 - 3. Primary charger use: (choose one)
 - a. Publicly available
 - b. Multifamily dwelling with greater than four dwelling units
 - c. Workplace charging
 - d. Fleet charging
 - e. Other
- (O) For any charger uninstalled during the reporting period, a statement that the charger has been uninstalled, as defined in section 3121, and the date it was uninstalled.
- (P) Station name – a unique identifier for the charging station.
- (Q) Telephone number to call if user has problems at the station.
- (R) Access Days and Times – hours of public operation for the station.
- (S) Payment methods – list of payment methods accepted at the station.
- (T) Payment actions – list of ways a user can pay for charging at the station.
- (U) Pricing information (e.g. \$/kWh (kilowatt-hour), \$/MJ (megajoule), demand response, variable, non-member fee, parking fee).
- (V) Power Sharing capabilities of charger - if the charger has multiple ports, identify how it distributes power among all ports in use.
- (3) Publicly or Ratepayer Funded Charger Uptime Report.
 - (A) For each charging port of a publicly or ratepayer funded charger required to report under subdivision (b) of this section, for the first six years after the charger is installed, each recordkeeping and reporting agent or designee shall report the uptime data required by section 3124.

(c) The following are exceptions to the semiannual reporting requirement of subdivisions (a) and (b) of this section.

- (1) A charger that was reported in a previous semiannual report as being uninstalled, as defined in section 3121, need not be included in the semiannual report required by this section if it has not dispensed electricity since it was most recently reported uninstalled.
- (2) Private residential chargers, temporary chargers, off-grid chargers, and research chargers, as defined in section 3121, are excluded from the semiannual reporting requirements of this section.
- (3) Fleet chargers and AC level 2 chargers, as defined in section 3121, are excluded from the uptime report required by subdivision (b)(3) of this section.
- (4) No report is required pursuant to subdivision (a) for any reporting period that started before April 1, 2026.

(d) Data submitted pursuant to this section shall be submitted in a format consistent with the Semiannual Charger Data Reporting Specification (July 29, 2025) of the Data Dictionary.

The following documents are incorporated by reference into section 3123.

Data Dictionary

Semiannual Charger Data Reporting Specification (July 29, 2025)

energy.ca.gov/inventory-reliability

Copies available from:

Fuels and Transportation Division

California Energy Commission

715 P Street, MS-6

Sacramento, CA 95814

phone # 800-555-7794

Note: Authority cited: Sections 25210, 25213, 25216.5, 25218(e), 25231.5, 25301, 25302, 25303, 25304, 25305, 25400, 25401, 25601, 25602, 25618, Public Resources Code; Reference: Sections 25210, 25216.5, 25229, 25231.5, 25300, 25301, 25302, 25303, 25304, 25305, 25324, 25400, 25401, 25601, 25602, 25618, Public Resources Code.

§ 3124: Publicly or Ratepayer Funded Charger Uptime Report Requirements.

(a) Publicly or Ratepayer Funded Charger Uptime Report. The publicly or ratepayer funded charger uptime report required by section 3123(b)(3) shall include all of the following:

- (1) The uptime percentage rate and minutes of excluded downtime for each charger port during the reporting period, calculated according to subdivisions (b), (c), and (d) of this section.
- (2) For each period of excluded downtime being claimed for a reporting period, an itemized summary of the date, duration, and category under subdivisions (d)(1)-(8).

(b) The uptime percentage rate for a charger port shall be calculated using the following formula:

(1)
$$U = \frac{T-D+E}{T} * 100\%$$

(2) Where:

(A) U = Charging port uptime percentage rate for the reporting period.

(B) T =

1. H1 reporting period, set in section 3123(a) = 260,640 minutes, except for a leap year, which is 262,080 minutes.

2. H2 reporting period, set in section 3123(a) = 264,960 minutes.

(C) D = Total charging port downtime during the reporting period, in minutes, calculated according to subdivision (c) of this section.

(D) E = Total charging port excluded downtime during the reporting period, in minutes, calculated according to subdivision (d) of this section.

(c) Downtime:

(1) Networked Publicly or Ratepayer Funded Chargers: Downtime shall be determined on a per charging port basis by summing the durations of all downtime events during the period. The duration of a downtime event shall be the longest of the following periods:

(A) The time after the charger has transmitted an operative status indicating the charger or a charging port is in an inoperative state until a subsequent operative status is transmitted indicating the charger has returned to an operative state. The timestamps in the operative statuses shall be used to quantify the downtime.

(B) If using OCPP version 2.0.1, the time after the charger has transmitted a StatusNotificationRequest indicating that the charging port associated with that charger is in a "faulted" or "Unavailable" state until a subsequent StatusNotificationRequest is transmitted by that charger indicating that the charging port has transitioned to an "available," "occupied," or "reserved" state. The timestamps in each StatusNotificationRequest shall be used to quantify downtime.

- (C) If using OCPP version 2.0.1, the time between a BootNotificationResponse transmitted by the Central Management System and the last HeartbeatResponse transmitted by the Central Management System prior to the BootNotificationResponse. The timestamps in the relevant BootNotificationResponse and HeartbeatResponse shall be used to quantify downtime.
- (D) The time between the first record that a charger is not capable of successfully dispensing electricity or otherwise not functioning as designed and the time it is available to deliver a charge. A record that a charger is not capable of successfully dispensing electricity or otherwise not functioning as designed can result from consumer notification pursuant to section 3127, internal diagnostics, inspection, or any other method by which the recordkeeping and reporting agent is made aware that a charger is not functioning.
- (2) Nonnetworked Publicly or Ratepayer Funded Charger: The time that a charging port is in an inoperative state or not capable of successfully dispensing electricity. This can be known by consumer notification pursuant to section 3127, internal diagnostics, inspection, or other methods.
 - (A) The downtime shall be calculated from the time the charging port is in an inoperative state until it is restored to an operative state.
- (d) Excluded Downtime: Downtime accounted for pursuant to subdivision (c) of this section that is caused by events outside of the control of the charging station operator can be subtracted from total downtime when calculating uptime percentages. Excluded downtime is limited to the categories below:
 - (1) Before Installation: Downtime before the charging port was installed as defined in section 3121.
 - (2) Grid Power Loss: Downtime during which utility supplied power is not supplied at levels required for minimum function of the charging port. This can include, but is not limited to, service outages due to utility equipment malfunction or public safety power shutoffs. This does not include instances where power generation or storage equipment has been installed to serve the charger(s) exclusively. Documentation from the load serving entity detailing the outage is required to claim this as excluded downtime.
 - (3) Outage for Preventative Maintenance or Upgrade: Downtime caused by any preventative maintenance or upgrade work that takes the charging port offline. This exception only applies if the outage was scheduled at least two weeks in advance of the charger being placed in an inoperative state. The maximum downtime that can be excluded for preventative maintenance or upgrade work is 72 hours for any 12-month period.
 - (4) Vandalism or Theft: Downtime caused by any physical damage to the charger or station committed by a third party unless the downtime was reasonably foreseeable and could have been avoided through reasonable repair or maintenance. This can include, but is not limited to, theft of charging cables,

- damage to connectors from mishandling, or damage to screens. A maximum of 10 days may be claimed as excluded downtime for each vandalism or theft event. A police report, timestamped photograph of the damage, or similar third-party documentation is required to claim this as excluded time.
- (5) Natural Disasters: Downtime caused by any disruption of the charging port due to a natural event such as a flood, earthquake, or wildfire that causes great damage. Third party documentation such as news reporting is required along with a narrative of the direct impacts to the chargers(s) to claim this as excluded downtime.
 - (6) Communication Network Outages: Downtime caused by loss of communication due to cellular or internet service provider system outages. A Communication Network Outage can be claimed as excluded downtime provided the chargers default to a free charge state during communication losses. A free charge state is when the charger is operational and dispenses energy free of charge to any consumer.
 - (7) Operating Hours: Hours in which the charging port is in an operative state but that are outside of the identified hours of operation of the charging station.

Note: Authority cited: Sections 25210, 25213, 25216.5, 25218(e), 25231.5, 25301, 25302, 25303, 25304, 25305, 25400, 25401, 25601, 25602, 25618, Public Resources Code; Reference: Sections 25210, 25216.5, 25229, 25231.5, 25300, 25301, 25302, 25303, 25304, 25305, 25324, 25400, 25401, 25601, 25602, 25618, Public Resources Code.

§ 3125: Additional Requirements for Networked Publicly or Ratepayer Funded Chargers.

- (a) For networked publicly or ratepayer funded chargers installed on or after September 28, 2026, the recordkeeping and reporting agent as designated pursuant to section 3122, shall ensure the charger meets the following requirements:
 - (1) The charger has Subset Certification in the Open Charge Alliance OCPP Certification Program for OCPP version 2.0.1, edition 3, published May 06, 2024, for Core and Advanced Security functionalities.
 - (2) The charger and Central Management System transmit the following protocol data units as specified in OCPP:
 - (A) AuthorizeRequest shall be transmitted to the Central Management System by the charger as specified in OCPP.
 - (B) AuthorizeResponse shall be transmitted by the Central Management System to the charger as specified in OCPP 2.0.1.
 - (C) HeartbeatRequest shall be transmitted to the Central Management System by the charger on a set interval.

- (D) HeartbeatResponse shall be transmitted to the charger by the Central Management System in response to any received HeartbeatResponse.
- (E) StatusNotificationRequest shall be transmitted by the charger to the Central Management System as specified in OCPP 2.0.1.
- (F) BootNotificationRequest shall be transmitted by the charger to the Central Management System any time the charger is powered on.
- (G) BootNotificationResponse shall be transmitted by the Central Management System to the charger in response to any received BootNotificationRequest.
- (H) RequestStartTransactionRequest shall be transmitted by the Central Management System to the charger as specified in OCPP 2.0.1.
- (I) NotifyEventRequest shall be transmitted by the Central Management System to the charger as specified in OCPP 2.0.1.
- (J) TransactionEventRequest shall be transmitted to the Central Management System by the charger as specified in OCPP 2.0.1.

1. The optional field meterValue must be populated when the eventType field is set to either "Started" or "Ended."
2. When populated, the sub-subfield Value of the subfield SampledValue of the field meterValue shall be transmitted in Watt-hours (Wh).
3. When populated, the sub-sub-subfield unit of the sub-subfield unitOfMeasure of the subfield SampledValue of the field meterValue shall be set to the default string, "Wh."
4. When populated, the sub-sub-subfield multiplier of the sub-subfield unitOfMeasure of the subfield SampledValue of the field meterValue shall be set to the default integer, 0 (zero).
5. When the meterValue field is populated, the measurand sub-subfield of the SampledValueType subfield, of the field meterValue shall be populated as specified in OCPP 2.0.1.

(b) For networked publicly or ratepayer funded chargers installed on or after September 28, 2026, the recordkeeping and reporting agent of a networked publicly or ratepayer funded charger shall automatically transmit to the CEC or the CEC's designee the data specified in the following subdivisions (1) through (6) via API. If the record is generated by the central system and sent to the charger, the recordkeeping and reporting agent shall transmit the record to the CEC or the CEC's designee within 60 minutes after the record's generation. If the record is generated by the charger and sent to the central system, the recordkeeping and reporting agent shall transmit the record to the CEC or the CEC's designee within 60 minutes after the record's receipt by the Central Management System:

- (1) Charger serial number.
- (2) Charger ID — the unique identifier for the charger within the network provided by the charging network provider. This shall be identical to the charger ID reported pursuant to section 3123(b)(2)(M)(1).

- (3) Charging Port ID – the unique identifier for the charging port within the network provided by the charging network provider. This shall be identical to the charger ID reported pursuant to section 3123(b)(2)(M)(2).
- (4) System time – The date and time that the record was first recorded by the central system. For records generated by the charger and sent to the central system, system time shall be the time the record was received by the central system. For messages generated by the central system and sent to the charger, system time shall be the time the record was generated.
- (5) All instances of HeartbeatResponse, BootNotificationRequest, and BootNotificationResponse for each charger.
- (6) All instances of AuthorizeRequest, AuthorizeResponse, NotifyEventRequest, RequestStartTransactionRequest, StatusNotificationRequest, and TransactionEventRequest for each charging port.
- (c) For networked publicly or ratepayer funded chargers installed from January 1, 2024 through September 27, 2026, the recordkeeping and reporting agent of a networked publicly or ratepayer funded charger shall comply with subdivisions (a) and (b) of this section, or shall record, and retain for six years from the date of recording, the operative status of each charging port for each publicly or ratepayer funded charger on a fifteen-minute interval. In the event the recordkeeping and reporting agent elects to comply with subdivisions (a) and (b) of this section and the CEC or the CEC’s designee is not yet set up to receive the data via API, the recordkeeping and reporting agent shall transmit the data to the CEC or the CEC’s designee with the semiannual reporting required in section 3123 in an electronic format of the Executive Director’s choosing until the CEC or the CEC’s designee is set up to receive the data via API.
- (d) For publicly or ratepayer funded chargers installed on or after January 1, 2024, the charging station operator shall record and retain for six years from the date of recording, the documentation required by section 3124(d) for any excluded downtime claimed as part of the uptime report specified in subdivision 3124(a).
- (e) The Executive Director may electronically request (sent to the most recent email address filed pursuant to section 3123(b)(1)(C)) that a recordkeeping and reporting agent provide the CEC with copies of the records retained pursuant to subdivision (c) and (d) of this section in an electronic format of the Executive Director’s choosing. The recordkeeping and reporting agent shall submit the requested records to the CEC within 21 days after the date of the request in the electronic format specified by the Executive Director.
- (f) In the event of a technological malfunction other than the situation described in subdivision (c)(1) of this section that prevents recordkeeping and reporting agents from transmitting the records specified in subdivisions (a) and (b) of this section within 60 minutes of the records generation via API, the recordkeeping and reporting agent shall transmit data that was unable to be transmitted to the CEC or CEC’s designee promptly upon the resolution of the technological malfunction.

(g) Any charger that meets the definition of an AC level 2 charger, fleet charger, off-grid charger, private residential charger, research charger, or temporary charger, as those terms are defined in section 3121 is not required to meet the requirements of subdivisions (a) through (f) of this section.

(h) Data submitted pursuant to this section shall be submitted in a format consistent with the Hourly Charger Data Reporting Specification (July 29, 2025) of the Data Dictionary.

The following documents are incorporated by reference into section 3125.

Data Dictionary

Hourly Charger Data Reporting Specification (July 29, 2025)

energy.ca.gov/inventory-reliability

Copies available from:

Fuels and Transportation Division

California Energy Commission

715 P Street, MS-6

Sacramento, CA 95814

phone # 800-555-7794

Open Charge Point Protocol

Open Charge Point Protocol version 2.0.1 Edition 3 (May 06, 2024). <https://www.openchargealliance.org/downloads/>

Copies available from:

Superintendent of Documents

U.S. Government Printing Office Washington, DC 20402 www.ecfr.gov

Note: Authority cited: Sections 25210, 25213, 25216.5, 25218(e), 25231.5, 25301, 25302, 25303, 25304, 25305, 25400, 25401, 25601, 25602, 25618, Public Resources Code; Reference: Sections 25210, 25216.5, 25229, 25231.5, 25300, 25301, 25302, 25303, 25304, 25305, 25324, 25400, 25401, 25601, 25602, 25618, Public Resources Code.

§ 3126: Additional Requirements for Nonnetworked Publicly or Ratepayer funded Chargers.

(a) The recordkeeping and reporting agent of a nonnetworked publicly or ratepayer funded charger shall create, and retain for six years, the following maintenance records for each nonnetworked publicly or ratepayer funded charger it operates:

(1) Date and time of any maintenance.

(2) Whether the maintenance was corrective or preventive in nature.

(3) Whether and for how long the charger was in an inoperative state prior to, during, or after the maintenance.

- (4) Whether the charger was in an operative state following the maintenance.
- (b) The recordkeeping and reporting agent of a nonnetworked publicly or ratepayer funded charger shall retain for six years from the date of recording, the documentation required by section 3124(d) for any excluded downtime claimed as part of the uptime report specified in section 3124(a), and any customer complaint, internal diagnostic, or inspection report indicating the occurrence or duration of a period when a charger was in an inoperative state or when an attempt to charge a vehicle failed.
- (c) The Executive Director may electronically request (sent to the most recent email address filed pursuant to section 3123(b)(1)(C)) that the recordkeeping and reporting agent provide the CEC with copies of the records retained pursuant to subdivisions (a) and (b) of this section. The recordkeeping and reporting agent or its designee shall submit the requested records to the CEC within 21 days after the date of the request.
- (d) Any charger that meets the definition of an AC level 2 charger, fleet charger, off-grid charger, private residential charger, research charger, or temporary charger, as defined in section 3121, need not meet the requirements of subdivisions (a) through (c) of this section.

Note: Authority cited: Sections 25210, 25213, 25216.5, 25218(e), 25231.5, 25301, 25302, 25303, 25304, 25305, 25400, 25401, 25601, 25602, 25618, Public Resources Code; Reference: Sections 25210, 25216.5, 25229, 25231.5, 25300, 25301, 25302, 25303, 25304, 25305, 25324, 25400, 25401, 25601, 25602, 25618, Public Resources Code.

§ 3127: Customer Service Requirements for Publicly or Ratepayer Funded Chargers.

Charging station operators operating publicly or ratepayer funded chargers, excluding those that meet the definition of AC level 2 chargers or private residential chargers, as defined in section 3121, shall ensure that EV charging customers have at least one mechanism to report outages, malfunctions, and other issues with the charger. Instructions describing the process for reporting outages shall be made available at the charging station.

Note: Authority cited: Sections 25210, 25213, 25218(e), 25231.5, 25618, Public Resources Code; Reference: Sections 25210, 25231.5, 25618, Public Resources Code.

§ 3128 Performance Standards for Publicly or Ratepayer Funded Chargers.

- (a) The funding recipient shall ensure that, publicly or ratepayer funded chargers installed on or after January 1, 2024, shall maintain a minimum annual average

uptime rate of 97 percent for each calendar year for the first six years after the charger is installed. The annual average uptime rate shall be calculated using the calculation defined in section 3124(b)(1) using the parameters in (1) through (4) of this subdivision.

(1) U = The charging port annual uptime percentage.

(2) T = 525,600 minutes, except for a leap year, which is 527,040 minutes.

(3) D = Total charging port downtime, reported in minutes, during the calendar year according to section 3124(c).

(4) E = The total excluded downtime, reported in minutes, during the calendar year according to section 3124(d).

(b) Any charger that was previously reported as uninstalled or that meets the definition of an AC level 2 charger, fleet charger, private residential charger, research charger, temporary charger, or off-grid charger, as defined in section 3121, need not meet the performance standards of subdivision (a) of this section.

Note: Authority cited: Sections 25210, 25213, 25216.5, 25218(e), 25231.5, 25301, 25302, 25303, 25304, 25305, 25400, 25401, 25601, 25602, 25618, Public Resources Code; Reference: Sections 25210, 25216.5, 25229, 25231.5, 25300, 25301, 25302, 25303, 25304, 25305, 25324, 25400, 25401, 25601, 25602, 25618, Public Resources Code.

§ 3129: Funding Entities.

(a) Beginning September 28, 2026, CEC staff shall make reliability metrics available to funding entities so that they may be considered prior to approving any application for funding to install a publicly or ratepayer funded charger using funds from a California state agency or through a charge on ratepayers.

(b) The Executive Director may assess and publicly report, including on the CEC's website, the reliability metrics of individual and aggregated charging stations and charging ports associated with one or more funding recipient, charging station operator, or charging network provider. The reliability metrics may be based on any information available, including without limitation, the uptime report and protocol data units submitted pursuant to sections 3123(b)(3) and 3125. The Executive Director's reports may assess equitable access to charging stations, including without limitation, assessing variations in reliability metrics of charging stations in low-, moderate-, and high-income communities. Nothing in this section is intended to require disclosure of otherwise confidential information.

Note: Authority cited: Sections 25210, 25213, 25216.5, 25218(e), 25231.5, 25301, 25302, 25303, 25304, 25305, 25400, 25401, 25601, 25602, 25618, Public Resources Code; Reference: Sections 25210, 25216.5, 25229, 25231.5, 25300, 25301, 25302, 25303, 25304, 25305, 25324, 25400, 25401, 25601, 25602, 25618, Public Resources Code.

§ 3130: Data-Sharing Requirements for Networked Publicly or Ratepayer Funded Chargers that are Publicly Available.

- (a) Except as provided in subdivision (b), each charging network provider shall, for every networked publicly or ratepayer funded charger installed in California that is publicly available, ensure that the following data fields are made available, free of charge, to third-party software developers, via application programming interface:
- (1) Unique charging station name or identifier;
 - (2) Address (street address, city, state, and zip code) of the property where the charging station is located;
 - (3) Geographic coordinates in decimal degrees of exact charging station location;
 - (4) Charging station operator name;
 - (5) Charging network provider name;
 - (6) Charging station status (operational, under construction, planned, or decommissioned);
 - (7) Charging station access information:
 - (A) Charging station access type (public or limited to commercial vehicles);
 - (B) Charging station access days and times (hours of operation for the charging; station); and
 - (8) Charging port information:
 - (A) Number of charging ports;
 - (B) Unique port identifier for each port;
 - (C) Connector types available by port;
 - (D) Charging level by port (DCFC, AC Level 2, etc.);
 - (E) Maximum power delivery rating in kilowatts by charging port;
 - (F) Maximum output voltage by charging port;
 - (G) Accessibility by vehicle with trailer (pull-through stall) by port (yes/no); and
 - (H) Real-time status by port in terms defined by Open Charge Point Interface 2.2.1. Real-time, in this instance, means this data field must be updated within 1-minute of the charging port's status changing.
 - (9) Pricing and Payment Information: Pricing structure including all fees associated with charging. This can include, but is not limited to, parking fees, plug-in fees, and roaming fees.
 - (10) Real-time price to charge, in U.S. dollars per kilowatt-hour or megajoule, at each charging port, in terms defined by Open Charge Point Interface 2.2.1. Real-time, in this instance, means this data field must be updated within 1-minute of a change in pricing.
 - (11) Payment methods accepted at charging station including charging network providers and charging station operators that have roaming agreements which would allow their customers to use this charger.

(b) If a publicly available charger is made available to the public for only limited time periods, it must comply with this section during those limited time periods.

The following documents are incorporated by reference into section 3130.

Open Charge Point Interface

Open Charge Point Interface 2.2.1 (September 7, 2023). <https://evroaming.org/app/uploads/2021/11/OCPI-2.2.1.pdf>

Copies available from: Superintendent of Documents
U.S. Government Printing Office Washington, DC 20402
www.ecfr.gov

Note: Authority cited: Sections 25210, 25213, 25216.5, 25218(e), 25231.5, 25301, 25302, 25303, 25304, 25305, 25400, 25401, 25601, 25602, 25618, Public Resources Code; Reference: Sections 25210, 25216.5, 25229, 25231.5, 25300, 25301, 25302, 25303, 25304, 25305, 25324, 25400, 25401, 25601, 25602, 25618, Public Resources Code.

§ 3131: Enrolled Charging Network Providers for Publicly or Ratepayer Funded Chargers.

- (a) A charging network provider may apply to be an enrolled charging network provider by submitting an application to the Executive Director, executed under penalty of perjury of the laws of the State of California. Applications shall be submitted to enrolledcharging@energy.ca.gov and shall contain the following:
- (1) The full legal name, address of the principal place of business, telephone number, and email address of the charging network provider submitting the application.
 - (2) The full legal name, title, and telephone number, and email address of the person executing the declaration.
 - (3) A statement that the person executing the declaration is authorized to do so and to submit the application on behalf of the charging network provider.
 - (4) The name, title, and telephone number, and email address of a person to contact regarding the application.
 - (5) A statement that the charging network provider agrees to undertake the duties of a recordkeeping and reporting agent under this Article, including without limitation, reporting the protocol data units required to be reported to the CEC pursuant to Section 3125.
 - (6) A statement that the charging network provider meets, and will maintain so long as the charging network provider is enrolled, the following technical requirements:

- (A) The Hourly Charger Data Reporting Specification as incorporated by reference in section 3125 (b) to permit the charging network provider to transfer the data required to be submitted pursuant to Section 3125(b).
 - (B) Subset Certification of the Charging Station Management System in the Open Charge Alliance OCPP Certification Program for OCPP version 2.0.1, published May 06, 2024, for Core and Advanced Security.
- (b) Upon receipt of an application pursuant to subdivision (a), the Executive Director shall provide the charging network provider with notice of receipt of the application as follows:
 - (1) If the Executive Director determines that an application does not meet the requirements of subdivision (a), the Executive Director shall provide the applicant with notice that the application is incomplete and a statement of what is necessary to meet the requirements of subdivision (a). The Executive Director's failure to comply with this subdivision, in whole or in part, does not waive any requirements.
 - (2) If the Executive Director determines that an application meets the requirements of subdivision (a), the Executive Director shall provide the charging network provider with notice of receipt of the application and permit the charging network provider to demonstrate its ability to transfer the Hourly Charger Data Reporting Specification data required to be submitted pursuant to Section 3125(b).
- (c) Within 60 days of the Executive Director granting a charging network provider access to an API pursuant to subdivision (b)(2), the charging network provider shall demonstrate its ability to transfer the data required to be submitted pursuant to 3125(b).
 - (1) If within 60 days, the charging network provider does not successfully demonstrate transfer of data to the CEC via the API enabled in subdivision (b), the Executive Director shall notify the charging network provider that the API demonstration was unsuccessful and why if known. Upon notice, the charging network provider shall have an additional 30 days to demonstrate transfer of data to the CEC via the API enabled in subdivision (b). If the charging network provider does not successfully demonstrate transfer of data, the Executive Director shall issue a determination denying the application. A charging network provider may reapply at any time following a denial.
 - (2) If the charging network provider successfully demonstrates transfer of data to the CEC via the API enabled in subdivision (b), the Executive Director shall deem the charging network provider an enrolled charging network provider for purposes of this Article and the Executive Director shall list the charging network provider on the CECs website.
- (d) Renewal. Status as an enrolled charging network provider granted under this section shall remain in effect for six years and then terminate without notice unless renewal is requested and granted. An entity may renew the six-year period of an exemption at any time before its enrolled charging network provider status

terminates by applying as set forth in subdivisions (a) through (c) of this section. Nothing in this section prohibits an entity whose enrolled charging network provider status has terminated from applying to be an enrolled charging network provider.

Note: Authority cited: Sections 25210, 25213, 25216.5, 25218(e), 25231.5, 25301, 25302, 25303, 25304, 25305, 25400, 25401, 25601, 25602, 25618, Public Resources Code; Reference: Sections 25210, 25216.5, 25229, 25231.5, 25300, 25301, 25302, 25303, 25304, 25305, 25324, 25400, 25401, 25601, 25602, 25618, Public Resources Code.

§ 3132: Disclosure of Reporting Requirements for Publicly or Ratepayer Funded Chargers.

Disclosure. The funding entity shall clearly disclose to the funding recipient the funding recipient's reporting requirements of this Article. If the funding recipient is a charging network provider or other third-party entity that is not the site host, the charging network provider or third-party entity shall provide a separate disclosure to the site host about the site host's right to designate the charging network provider or third-party as the entity to be responsible to ensure the data is reported on behalf of the site host. The funding recipient shall verify receipt of the disclosure by signing the disclosure, to be confirmed by the funding entity.

Note: Authority cited: Sections 25213, 25218(e), 25231.5, 25400, 25401, 25601, 25602, 25618, Public Resources Code; Reference: Sections 25231.5, 25400, 25401, 25601, 25602, 25618, Public Resources Code.

§ 3133: General Administration.

- (a) Forms and Formats Specified by the Executive Director. The Executive Director may specify and require the use of any form or format for the submittal of any data, reports, or other information required by this Article, including but not limited to computer programs or formats.
- (b) Electronic Filing.
 - (1) Unless otherwise stated in this Article, the statements and other submittals required or allowed by this Article shall be filed electronically to the CEC's database so that the electronic filing to the CEC's database uses a format and characteristics, including without limitation appropriate formatting, that are specified by the Executive Director in sections 3123, 3125, and 3131.
 - (2) Any electronic filing to the CEC's database constitutes a representation by the person making the filing that:
 - (A) All applicable requirements of this Article have been met;
 - (B) The person will electronically acknowledge receipt through the CEC's database of all electronic communications concerning the filing from the Executive Director through the CEC's database to the person;

business meeting for potential adoption by the CEC. At the conclusion of an oral hearing or anytime thereafter, or if no oral hearing is requested then anytime after the Executive Director submits its written decision or determination, the presiding member may close the hearing record and preclude additional testimony and evidence.

- (B) The CEC shall review the decision or determination made pursuant to this Article de novo.

Note: Authority cited: Sections 25213, 25216.5, 25218(e), 25231.5, 25301, 25302, 25303, 25304, 25305, 25400, 25401, 25601, 25602, 25618, Public Resources Code; Reference: Sections 25210, 25216.5, 25229, 25231.5, 25300, 25301, 25302, 25303, 25304, 25305, 25324, 25400, 25401, 25601, 25602, 25618, Public Resources Code.

§ 3134: Confidentiality.

- (a) An entity submitting information pursuant to this Article may request confidentiality pursuant to section 2505, including without limitation, for automatic designation pursuant to the provisions of 2505(a)(5).
- (b) The CEC may disclose information submitted under this Article that was previously designated as confidential if disclosure is permitted by law, including without limitation, pursuant to section 2507(e)(6) and (f)(1)(D).
- (c) Nothing in this section is intended to limit or expand the confidentiality of information submitted to the CEC.

Note: Authority cited: Sections 25213, 25218(e), 25231.5, 25301, 25302, 25303, 25304, 25305, 25400, 25401, 25601, 25602, 25618, Public Resources Code; Reference: Sections 25210, 25216.5, 25229, 25322, 25231.5, 25366, 25300-25305, 25400, 25401, 25601, 25602, 25618, Public Resources Code.

§ 3135: Enforcement.

- (a) The CEC may enforce against an entity obligated to submit semiannual inventory reports pursuant to section 3123(b)(2) for late or willfully false submittals, including issuing civil penalties, consistent with Public Resources Code section 25321.
- (b) The Executive Director and CEC may take other such actions as are authorized by statute and CEC regulations to address or prevent any act or omission addressed under this Article.

Note: Authority cited: Sections 25213, 25218(e), 25231.5, 25301, 25302, 25303, 25304, 25305, Public Resources Code; Reference: Section 11180, Government Code, Sections 25210, 25216.5, 25229, 25231.5, 25300, 25301, 25302, 25303, 25304, 25305, 25324, 25321, 25322, 25900, Public Resources Code.



Semiannual Electric Vehicle Charger Data Reporting Specification

Purpose of Workbook

The California Energy Commission has Amendments to the California Code of Regulations, Title 20, Division 2, Chapter 7, Article 2, Sections 2505, 2507, and Chapter 12, Article 1. The California Energy Commission added Article 2 sections 3120 - 3133 to Title 20, Division 2, Chapter 12 of the California Code of Regulations. Henceforth, these amendments and additions shall be collectively referred to as the EV Charger Regulations.

This Semiannual Electric Vehicle Charger Data Reporting Specification is incorporated by reference in the EV Charger Regulations. It is intended to clarify the specifics and format of data required to be reported to the CEC by the EV Charger Regulations. This document should be used in conjunction with the express terms of the EV Charger Regulations and should not interpreted as a standalone document.

Questions: For any questions please reach out to: ZevDataReporting@energy.ca.gov

Sheet Name	Description	Notes
README	Overview of Semiannual Electric Vehicle Charger Data Reporting Specification and description of each worksheet.	
Data Dictionary	Provides required column names as well as descriptions for required reporting, formatted into modules. A module, in this context, means a discreet data set that is required to be reported as a separate comma separated (.csv) file.	<p>1. Each module must be submitted as an individual comma separated values (.csv) file. Records in all three CSV files are reported at the individual port level. A charger with multiple ports, if applicable, must have a separate row for each port in both the inventory and uptime CSV files. The excluded downtime CSV is also reported at the port level and may contain multiple entries for a single port.</p> <p>Many fields — such as street address, charger ID, and other attributes defined above the port level — must repeat across multiple rows. This redundancy is intentional to maintain a consistent port-level record structure across all files.</p> <p>2. Identification of Recordkeeping and reporting agents required by subsection 3123(b) of the EV Charger Regulations is satisfied by booleans identifying whether each of the contacts are recordkeeping and reporting agents.</p>
Contact Information and Inventory Reporting	Comma separated values (.csv) file specification for the contact information and inventory data detailed in Module 1 of the Data Dictionary.	<p>1. Reference section 3123(a) - (b)(2) of the EV Charger Regulations Note: A charger with multiple ports, if applicable, must have a separate row for each port</p>
Uptime Reporting	Comma separated values (.csv) file specification for the uptime data detailed in Module 2 of the Data Dictionary.	<p>1. Reference section 3123(a) - (b)(3) of the EV Charger Regulations. Note: A charger with multiple ports, if applicable, must have a separate row for each port</p>
Excluded Downtime Reporting	Comma separated values (.csv) file specification for the excluded downtime data detailed in Module 3 of the Data Dictionary.	<p>1. Reference section 3123(a) - (b)(3) of the EV Charger Regulations. Note: A charger with multiple ports, if applicable, can have a row per port for each downtime exclusion entry</p>



Hourly Charger Data Reporting Specification

Purpose of Workbook

The California Energy Commission has Amendments to the California Code of Regulations, Title 20, Division 2, Chapter 7, Article 2, Sections 2505, 2507, and Chapter 12, Article 1. The California Energy Commission has also added Article 2 sections 3120 - 3133 to Title 20, Division 2, Chapter 12 of the California Code of Regulations. Henceforth, these amendments and additions shall be collectively referred to as the EV Charger Regulations.

This Hourly Charger Data Reporting Specification is incorporated by reference in the EV Charger Regulations. It is intended to clarify the specifics and format of data required to be reported to the CEC by the EV Charger Regulations. This document should be used in conjunction with the express terms of the EV Charger Regulations and should not be interpreted as a standalone document.

Questions: For any questions please reach out to: ZevDataReporting@energy.ca.gov

Sheet Name	Description	Notes
README	Overview of Hourly Charger Data Reporting Specification and description of each worksheet.	<p>file shall contain all instances of the relevant PDU that have been transmitted between the CMS and all applicable chargers or charging ports during the reporting period.</p> <p>Note: Please note that gzip is different than zip compression, for compression purpose use the gzip standard.</p> <p>Example:</p> <p># Mac/Linux users gzip authorizeResponse_2025080119.csv</p> <p># Windows users (with 7-zip or similar) gzip authorizeResponse_2025080119.csv</p> <p>2. If a field within the OCPP message is empty then the field should be left blank in the submission. All submissions should include every column in each specification.</p> <p>3. The naming structure of the submitted file shall be OCPP_MSG_NAME + '-' + YYYYMMDDHH (in UTC timezone). For example heartbeatResponse_2025080120.csv.gz or heartbeatResponse_2025080120.csv. An S3 folder will be procured for each CNP upon request.</p> <p>4. The field "IsPduConfidential" is a boolean flag that identifies whether the PDU is confidential. If "TRUE", all fields in the PDU will be held confidential in accordance with section 2505(a)(5)(B)(10) of the EV charger regulations.</p> <p>5. Any empty fields in a PDU can be left blank or null in the corresponding row and column of the csv.</p> <p>6. Some fields specified in OCPP 2.0.1 are intentionally omitted.</p> <p>7. Reference section 3125(b) of the EV charger regulations.</p> <p>8. Certain messages are contained in the transport layer for each PDU.</p>
Data Dictionary	Required column names and descriptions datum required in each column, formatted by Protocol Data Units (PDUs) specified in the Open Charge Point Protocol (OCPP) version 2.0.1.	9. This document contains descriptions copied from the OCPP 2.0.1 specification, of which, many are truncated. Users should refer to the OCPP 2.0.1 specification for
HeartbeatResponse	Comma separated values (.csv) file specification for HeartbeatResponse which is detailed in Required PDU 1 of the Data Dictionary.	1. 3125(b) of the EV Charger Regulations.
BootNotificationResponse	Comma separated values (.csv) file specification for BootNotificationResponse which is detailed in Required PDU 2 of the Data Dictionary.	1. 3125(b) of the EV Charger Regulations.
AuthorizeRequest	Comma separated values (.csv) file specification for AuthorizeRequest which is detailed in Required PDU 3 of the Data Dictionary.	1. 3125(b) of the EV Charger Regulations.
AuthorizeResponse	Comma separated values (.csv) file specification for AuthorizeResponse which is detailed in Required PDU 4 of the Data Dictionary.	1. 3125(b) of the EV Charger Regulations.
RequestStartTransactionRequest	Comma separated values (.csv) file specification for RequestStartTransactionRequest which is detailed in Required PDU 5 of the Data Dictionary.	1. 3125(b) of the EV Charger Regulations.
StatusNotificationRequest	Comma separated values (.csv) file specification for StatusNotificationRequest which is detailed in Required PDU 6 of the Data Dictionary.	1. 3125(b) of the EV Charger Regulations.
TransactionEventRequest	Comma separated values (.csv) file specification for TransactionEventRequest which is detailed in Required PDU 7 of the Data Dictionary.	1. 3125(b) of the EV Charger Regulations.
BootNotificationRequest	Comma separated values (.csv) file specification for BootNotificationRequest which is detailed in Required PDU 8 of the Data Dictionary.	1. 3125(b) of the EV Charger Regulations.
NotifyEventRequest	Comma separated values (.csv) file specification for NotifyEventRequest which is detailed in Required PDU 9 of the Data Dictionary.	1. 3125(b) of the EV Charger Regulations.



Hourly Electric Vehicle Charger Data Reporting Template

Required OCPP Protocol Data Unit 1: HeartbeatResponse

Column Name	OCPP Source	Data Type	Description	Metadata or OCPP
charger_manufacturer_serial_number		string	The charger manufacturer serial number	Metadata
charger_id		string	The network provider specific unique id for the charger	Metadata
system_time		dateTime	The UTC timestamp the PDU was sent by CSMS. System time shall be reported in YYYY-MM-DDThh:mm:ssZ format	Metadata
is_pdu_confidential		boolean	Indicates the PDU and all fields are confidential	Metadata
message_id	messageId	string	The message ID serves to identify a request. This is a unique identifier that will be used to match request and result	OCPP
message_type	messageType	integer	To identify the type of message one of the following Message. Where the numbers 2,3,4 correspond to message types CALL, CALLRESULT, CALLERROR	OCPP
action	action	string	For CALL message types this value contains the OCPP message name e.g. "BootNotification"	OCPP
error_code	ErrorCode	string	When message_type = 4 This field must contain a string from the RPC Framework Error Codes table.	OCPP
error_description	ErrorDescription	string	When message_type = 4 This field should be filled in if possible	OCPP
error_details	ErrorDetails	string	This JSON object describes error details in an undefined way.	OCPP
heartbeat_response_current_time	heartbeatResponse.currentTime	dateTime	The currentTime field from HeartbeatResponse in UTC	OCPP

Required OCPP Protocol Data Unit 2: BootNotificationResponse

Column Name	OCPP Source	Data Type	Description	Metadata or OCPP
charger_manufacturer_serial_number		string	The charger manufacturer serial number	Metadata
charger_id		string	The network provider specific unique id for the charger	Metadata
system_time		dateTime	The UTC timestamp the PDU was sent by CSMS. System time shall be reported in YYYY-MM-DDThh:mm:ssZ format	Metadata
is_pdu_confidential		boolean	Indicates the PDU and all fields are confidential	Metadata
message_id	messageId	string	The message ID serves to identify a request. This is a unique identifier that will be used to match request and result	OCPP
message_type	messageType	integer	To identify the type of message one of the following Message. Where the numbers 2,3,4 correspond to message types CALL, CALLRESULT, CALLERROR	OCPP
action	action	string	For CALL message types this value contains the OCPP message name e.g. "BootNotification"	OCPP
error_code	ErrorCode	string	When message_type = 4 This field must contain a string from the RPC Framework Error Codes table.	OCPP
error_description	ErrorDescription	string	When message_type = 4 This field should be filled in if possible.	OCPP
error_details	ErrorDetails	string	This JSON object describes error details in an undefined way.	OCPP
boot_notification_response_current_time	bootNotificationResponse.currentTime	dateTime	This contains the CSMS's current time.	OCPP
boot_notification_response_interval	bootNotificationResponse.interval	integer	When Status is Accepted, this contains the heartbeat interval in seconds. If the CSMS returns something other than Accepted, the value of the interval field indicates the minimum wait time before sending a next BootNotification request.	OCPP
boot_notification_response_status	bootNotificationResponse.status	string	Must contain one of: "Accepted", "Pending", "Rejected"	OCPP
boot_notification_response_status_info_reason_code	bootNotificationResponse.statusInfo.reasonCode	string	A predefined code for the reason why the status is returned in this response. The string is case insensitive.	OCPP
boot_notification_response_status_info_additional_info	bootNotificationResponse.statusInfo.additionalInfo	string	Additional text to provide detailed information.	OCPP

Required OCPP Protocol Data Unit 3: AuthorizeRequest

Column Name	OCPP Source	Data Type	Description	Metadata or OCPP
charger_manufacturer_serial_number		string	The charger manufacturer serial number	Metadata
charger_id		string	The network provider specific unique id for the charger	Metadata
charger_port_id		string	The network provider specific unique id for the charger port	Metadata
system_time		dateTime	The UTC timestamp the PDU was received by CSMS. System time shall be reported in YYYY-MM-DDThh:mm:ssZ format	Metadata



OCPP 2.0.1
Part 0 - Introduction

Edition 3 FINAL, 2024-05-06

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OCPI 2.2.1-d2

Open Charge Point Interface

<https://github.com/ocpi> & <https://evroaming.org/>

document version 2.2.1-d3-pre1, 2023-09-07

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