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NOTICE OF ADDITIONAL PUBLIC COMMENT PERIOD AND SUMMARY OF CHANGES

Rulemaking to Establish Regulations for Improved Electric Vehicle Charger Recordkeeping and Reporting, Reliability, and Data Sharing
OAL Z # 2025-0617-03
Docket No. 22-EVI-04

BACKGROUND

On June 27, 2025, the California Energy Commission (CEC) published a Notice of Proposed Action regarding the Rulemaking to Establish Regulations for Improved Electric Vehicle Charger Recordkeeping. The CEC made all documents available for a 45-day public comment period between June 28, 2025, and 5:00 p.m. on August 12, 2025, and subsequently held a public hearing to accept verbal and written comments regarding the rulemaking on August 13, 2025.

Based on comments received during the 45-day public comment period, the CEC is proposing changes to the proposed regulations published on June 27, 2025. Revised changes to the proposed regulations can be found at the end of this notice and on the CEC's webpage for the Electric Vehicle Charging Infrastructure Reliability Reporting and Performance Standards Proceeding at https://www.energy.ca.gov/proceedings/active-proceedings/electric-vehicle-charging-infrastructure-reliability-reporting-and.

Newly proposed additions to the June 27, 2025, version of the proposed regulations are shown in **underline and bold** and proposed deletions are shown in ~~**strikethrough and bold**~~. Proposed additions to existing sections of the California Code of Regulations originally proposed on June 27, 2025, are shown in underline and proposed deletions are shown in ~~strikethrough~~.

PUBLIC COMMENT PERIOD

Any interested persons are invited to review and provide written comments to the CEC for consideration during this 15-day comment period from September 8, 2025, through 5:00 p.m. on September 24, 2025. The CEC appreciates receiving written comments at the earliest possible date. Comments submitted outside this comment period are considered untimely.

Written comments, attachments, and associated contact information (including address, phone number, and email address) will become part of the public record of this proceeding with access available via any internet search engine.

The CEC encourages submitting written comments through the CEC's electronic commenting system. Visit the CEC e-comment page for docket number 22-EVI-04, at https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=22-EVI-04. Enter your contact information and a comment title describing the subject of your comment(s). Comments may be included in the "Comment Text" box or attached as a downloadable, searchable document consistent with Title 20, California Code of Regulations, Section 1208.1. The maximum files size allowed is 10 MB.

Written comments may also be submitted by email. Include the docket number 22-EVI-04 in the subject line and email your comment to docket@energy.ca.gov.

To ensure you receive notice of any changes to the proposed regulations in this proceeding, please follow the instructions provided at the end of this notice to join the proceeding contact list or provide a valid email or mailing address with your comments.

PUBLIC ADVISOR

The CEC's Office of the Public Advisor, Energy Equity, and Tribal Affairs assists the public with participation in CEC proceedings. To request assistance, interpreting services, or reasonable modifications and accommodations, reach out via email at publicadvisor@energy.ca.gov or by phone at (916) 957-7910 as soon as possible, but at least five days in advance. The CEC will work diligently to meet all requests based on availability.

MEDIA INQUIRIES

Direct media inquiries to the Media and Public Communications Office at (916) 654-4989, or by email at mediaoffice@energy.ca.gov.

SUMMARY OF CHANGES

The amended Express Terms presented for written comment during this public comment period are appended to the end of this document and have also been posted on the CEC's webpage for the Electric Vehicle Charging Infrastructure Reliability Reporting and Performance Standards Proceeding at https://www.energy.ca.gov/proceedings/active-proceedings/electric-vehicle-charging-infrastructure-reliability-reporting-and.

The following is a summary of the amendments proposed with this additional notice for public comment:

SECTION 2505. Designation of Confidential Records

Section: 2505 (a)(5)(B)(10)
Summary of Change: Makes non-substantive update to spelling, grammar, numbering, or style to improve readability. Adds acknowledgement that section 3125(b) is included as a category of information under section 2505(a)(5)(B)(10)(a).

SECTION 3120. Scope.

Section: 3120 (b)
Summary of Change: Clarifies that the regulations apply to alternating current (AC) Level 2 or direct current fast charger (DCFC) charging stations.

Section: 3120 (c)
Summary of Change: Clarifies that the regulations apply to AC Level 2 or DCFC charging stations.

SECTION 3121. Definitions.

Section: 3121 (13) Data dictionary
Summary of Change: Adds new definition “Data dictionary,” which is responsive to comments received during the 45-day comment period.

Section: 3121 (14) – (53)
Summary of Change: The number of each definition following (13) is increased by one due to the inclusion of a new definition.

Section: 3121 (18) Enrolled charging network provider
Summary of Change: Makes non-substantive update to correct an erroneous strike through in the June 27, 2025 express terms.

Section: 3121 (21) Fleet charger
Summary of Change: Alters definition to provide that fleet chargers include those used by commercial vehicles operated by subcontractors of the charging station operator or accessible only through preexisting contracts or access agreements. This change is responsive to comments received during the 45-day comment period.

Section: 3121 (25) Incentive
Summary of Change: Replaces the word “of any value” with “funds” in the incentive definition. Excludes credits generated under the Low Carbon Fuel Standard program established by the California Air Resources Board from being considered an incentive. These changes are responsive to comments received during the 45-day comment period.

Section: 3121 (41) Publicly available
Summary of Change: Makes non-substantive update to spelling, grammar, numbering, or style to improve readability.

Section: 3121 (42) Publicly or ratepayer funded charger
Summary of Change: Makes non-substantive update to correct erroneous spacing in the June 27, 2025 express terms.

SECTION 3123. Semiannual Reporting Requirement.

Section: 3123
Summary of Change: Adds data dictionary as incorporated by reference.

Section: 3123 (b)(1)(A)(2)
Summary of Change: Makes non-substantive update to spelling, grammar, numbering, or style to improve readability.

Section: 3123 (c)(1)
Summary of Change: Makes non-substantive update to spelling, grammar, numbering, or style to improve readability.

Section: 3123 (c)(2)
Summary of Change: Makes non-substantive update to spelling, grammar, numbering, or style to improve readability.

Section: 3123 (c)(3)
Summary of Change: Makes non-substantive update to spelling, grammar, numbering, or style to improve readability.

Section: 3123 (d)
Summary of Change: Incorporates reference to Data Dictionary as format for submitting semiannual charging data reporting.

SECTION 3124. Publicly or Ratepayer Funded Charger Uptime Report Requirements.

Section: 3124 (b)(2)(B)
Summary of Change: Corrects reporting period to H1-H2 from Q1-4 to align with the semiannual reporting period. This correction also requires changing the minutes in the reporting period to reflect the change from quarterly to semiannual reporting.

Section: 3124 (d)(4)
Summary of Change: Changes the number of days for the exclusion of vandalism downtime from 5 to 10 days. This change is responsive to comments received during the 45-day comment period.

SECTION 3125. Additional Requirements for Networked Publicly or Ratepayer Funded Chargers.

Section: 3125
Summary of Change: Adds data dictionary as incorporated by reference.

Section: 3125 (a)(2)(I)

Summary of Change: Specifies requirement for protocol data unit Notify Event Request.

Section: 3125 (a)(2)(J)
Summary of Change: Makes non-substantive change to adjust numbering to reflect addition of subsection (a)(2)(I).

Section: 3125 (b)
Summary of Change: Makes non-substantive update to numbering to reflect addition of subsection (b)(4) below.

Section: 3125 (b)(4)
Summary of Change: Adds the date and time that the record was first recorded by the central system.

Section: 3125 (b)(5) – (6)
Summary of Change: Makes non-substantive change to adjust numbering to reflect addition of subsection (b)(4) above.

Section: 3125 (b)(5)
Summary of Change: Adds the BootNotificationRequest instance records.

Section: 3125 (b)(6)
Summary of Change: Adds the NotifyEventRequest instance records.

Section: 3125 (g)
Summary of Change: Adds fleet charger to the list of chargers that need not meet requirements of subdivisions (a) through (f) of the section. Makes non-substantive update to spelling, grammar, numbering, or style to improve readability.

Section: 3125 (h)
Summary of Change: New subsection (h) specifies submission format consistent with the Hourly Charger Data Reporting Specification of the Data Dictionary.

SECTION 3126. Additional Requirements for Nonnetworked Publicly or Ratepayer funded Chargers.

Section: 3126 (d)
Summary of Change: Adds fleet charger to the list of chargers that need not meet requirements of subdivisions (a) through (c) of the section. Makes non-substantive update to spelling, grammar, numbering, or style to improve readability.

SECTION 3127. Customer Service Requirements for Publicly or Ratepayer Funded Chargers.

Section: 3127
Summary of Change: Makes non-substantive update to spelling, grammar, numbering, or style to improve readability.

SECTION 3128. Performance Standards for Publicly or Ratepayer Funded Chargers.

Section: 3128 (b)
Summary of Change: Makes non-substantive update to spelling, grammar, numbering, or style to improve readability.

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

Section: 3131 (a)
Summary of Change: Adds the CEC email address to which applicants must submit an application to become an enrolled charging network provider.

SECTION 3133: General Administration.

Section: 3133 (b)
Summary of Change: Makes non-substantive update to spelling, grammar, numbering, or style to improve readability.

ADDITIONAL DOCUMENTS RELIED UPON OR INCORPORATED BY REFERENCE

The CEC incorporates by reference the following additional technical, theoretical, or empirical studies, reports, or similar documents in the changes to the proposed regulation included in this notice:

1. California Energy Commission, *Semiannual Charging Data Reporting Specification of the Data Dictionary* (2025)
2. California Energy Commission, *Hourly Charging Data Reporting Specification of the Data Dictionary* (2025)

AVAILABILITY OF CHANGES TO ORIGINAL PROPOSAL FOR AT LEAST 15 DAYS PRIOR TO AGENCY ADOPTION/REPEAL/AMENDMENT OF RESULTING REGULATIONS

Participants should be aware that any of the proposed regulations could be changed because of public comment, staff recommendation, or recommendations from Commissioners. Moreover, changes to the proposed regulations not indicated in the Express Terms could be considered if they improve the clarity or effectiveness of the regulations. If the CEC considers changes to the proposed regulations pursuant to Government Code section 11346.8(c)(2), a full copy of the text will be available for review

at least 15 days prior to the date on which the CEC adopts or amends the resulting regulations.

AVAILABILITY OF DOCUMENTS ON THE INTERNET

The CEC maintains a website to facilitate public access to documents prepared and considered as part of this rulemaking proceeding. Documents prepared by the CEC for this rulemaking have been posted on the CEC Website Docket 22-EV-04, at https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=22-EVI-04.

COPY OF THE FINAL STATEMENT OF REASONS

At the conclusion of the rulemaking, persons may obtain a copy of the Final Statement of Reasons, once it has been prepared, by visiting the CEC Website Docket 22-EV-04, at https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=22-EVI-04.

INSTRUCTIONS FOR RECEIVING NOTICES AND DOCUMENTS IN THIS PROCEEDING

To stay informed about this proceeding and receive documents and notices of upcoming workshops and hearings as they are filed, please subscribe to the subscription for this rulemaking, which can be accessed here: CEC's webpage for the Electric Vehicle Charging Infrastructure Reliability Reporting and Performance Standards Proceeding, at https://www.energy.ca.gov/proceedings/active-proceedings/electric-vehicle-charging-infrastructure-reliability-reporting-and. Members of the public can subscribe to this topic at the link above. The subscription sends out email notifications and direct links when documents and notices are filed in the proceeding docket. If you are unable or do not wish to sign up for the automatic email notifications but still would like to receive documents and notices, please contact the contact person listed in the Notice of Proposed Action for this rulemaking proceeding.

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

Newly proposed additions to the June 27, 2025, version of the proposed regulations are shown in **underline and bold** and proposed deletions are shown in **strikethrough and bold**. Proposed additions to existing sections of the California Code of Regulations originally proposed on June 27, 2025, are shown in underline and proposed deletions are shown in strikethrough.

Sections 2505 and 2507 are amended as follows:

§ 2505: Designation of Confidential Records.

(a) Third Parties.

…[skipping subdivisions (a)(1) through (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) through (a)(5)(B)(9)]

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

    a. Information provided pursuant to section 3125(b)**~~(5)~~**.

    b. Information provided pursuant to section 3123(b)(2)(B) through (b)(2)(D), (b)(2)(M), and (b)(2)(P**~~) and section 3125(b)(1) through (b)(4)~~**, 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)]

§ 2507: Disclosure of Confidential Records.

…[skipping subdivisions (a) through (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) through 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) through 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 through 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]

Article 2 is added to Chapter 12 as follows:

Article 2. EV Charger Data and Reliability Standards

§ 3120: Scope.

This Article applies to all the following:

(a) 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.

(b) 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 ~~**chargers or charging stations**~~ **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.

(c) All site hosts of any publicly or ratepayer funded ~~**charger**~~ **AC Level 2 or DCFC** as defined in section 3121.

(d) 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 3127.

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.

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.

~~**(13)**~~**(14)** "Direct current fast charger" (DCFC) means a charger that enables rapid charging by delivering direct-current (DC) electricity to an EV's battery.

~~**(14)**~~**(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).

~~**(15)**~~**(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.

~~**(16)**~~**(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.

~~**(17)**~~**(18)** "Enrolled charging network provider" means a charging network provider that meets the technical and administrative criteria of Section 3131 **of this Article** ~~**of this Article**~~ and is granted the status of an enrolled charging network provider by the Commission pursuant to Section 3131(c)(2).

~~(18)~~**(19)** "Electric vehicle supply equipment" or "EVSE" means a "charger" as defined.

~~(19)~~**(20)** "Executive Director" means the Executive Director of the Energy Commission and anyone the Executive Director designates as an agent.

~~(20)~~**(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 ~~is solely used to charge electric vehicles registered to the charging station operator, as defined in this section.~~ **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.

~~(21)~~**(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.

~~(22)~~**(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.

~~(23)~~**(24)** "Hardware" means the machines, wiring, and other physical components of an electronic system including onboard computers and controllers.

~~(24)~~**(25)** "Incentive" means ~~anything of value~~ **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.**

~~(25)~~ **(26)** "Inoperative State" means the charger or charging port is not operational.

~~(26)~~ **(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.

~~(27)~~ **(28)** "Maintenance" means any instance in which preventive or corrective maintenance is carried out on equipment.

~~(28)~~ **(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.

~~(29)~~ **(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.

~~(30)~~ **(31)** "Nonnetworked charger" means a charger that is not networked.

~~(31)~~ **(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.

~~(32)~~ **(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.

~~(33)~~ **(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.

~~(34)~~ **(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.

~~(35)~~ **(36)** "Operative state" means the charger is operational.

~~(36)~~ **(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.

~~**(37)**~~ **(38)** "Preventive maintenance" means maintenance that is performed on physical assets to reduce the chances of equipment failure and unplanned machine downtime.

~~**(38)**~~ **(39)** "Private access," when referring to a charger, means a charger that is not a publicly available charger, as defined in this section.

~~**(39)**~~ **(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.

~~**(40)**~~ **(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.

~~**(41)**~~ **(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.

~~**(42)**~~**(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.

~~**(43)**~~**(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.

~~**(44)**~~**(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.

~~**(45)**~~**(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.

~~**(46)**~~**(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.

~~(47)~~(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.

~~(48)~~(49) "Software" means a set of instructions, data, or programs used to operate computers and execute specific tasks.

~~(49)~~(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.

~~(50)~~(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."

~~(51)~~(52) "Uptime" means the time that a charger is installed during a reporting period excluding downtime pursuant to section 3124(c) and (d).

~~(52)~~(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 179 days from the effective date of this paragraph, 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 180 days from the effective date of this paragraph, 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~~(b)~~.
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~~(b)~~, 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~~(b)~~, 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~~(b)~~, are excluded from the semiannual reporting requirements of this section.

(3) Fleet chargers and AC level 2 chargers, as defined in section 3121~~(b)~~, 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 the effective date of this section.

(d) Data submitted pursuant 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. **~~Q1~~ H1** reporting period**, set in section 3123(a)** = **~~129,600~~ 260,640** minutes, except for a leap year, which is **~~131,040~~ 262,080** minutes.

2. ~~**Q2**~~ **H2** reporting period**, set in section 3123(a)** = ~~**131,040**~~ **264,960** minutes.

~~**3. Q3 and Q4 reporting periods = 132,480 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 or a subsequent version of OCPP, 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 or a subsequent version of OCPP, 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, 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, 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 ~~**5**~~ **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 180 days after the effective date of this paragraph, 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 June 27, 2024, or a subsequent version of OCPP, 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.

~~(I)~~ **(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 180 days from the effective date of this paragraph, 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 (~~5~~**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.

~~(4)~~ **(5)** All instances of HeartbeatResponse**, BootNotificationRequest**, and BootNotificationResponse for each charger.

~~(5)~~ **(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 179 days after the effective date of this paragraph, 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**~~(b)~~**, **~~need not~~** **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 (June 27, 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~~**(b)**~~, 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~~**(b)**~~, 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~~**(b)**~~, 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 180 days after the effective date of this paragraph, 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) CEC staff shall publish model terms and conditions that funding entities can include, by mutual agreement, in the terms of any agreement granting an incentive to a funding recipient for a publicly or ratepayer funded charger, that would hold the funding recipient accountable if it fails to meet the performance standards of section 3128.

(c) 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 (October 6, 2021).	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~~, containing the following~~**. 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) An API of the CEC's choosing 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 24, 2023, or a subsequent version of OCPP 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 access to an API of the CEC's choosing to permit the charging network provider to demonstrate its ability to transfer the 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) Revocation. The Executive Director may revoke a charging network provider's status as an enrolled charging network provider for repeated failure to meet its obligations under this section.

(e) Appeal to CEC. A charging network provider may appeal a denial of an application, or revocation, pursuant to Section 3133(d).

(f) 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.

(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 ~~n~~ CEC's database to the person;

(C) All electronic communications concerning the filing from the Executive Director through the CEC's database to the person shall be deemed received by the person upon notification to the Executive Director, by the computer or other electronic device from which the Executive Director communication has been sent, that the communication has been sent; and

(D) All electronic communications concerning the filing from the person to the Executive Director shall be deemed received by the Executive Director only upon actual receipt.

(3) At any time the Executive Director may forbid electronic filings by any person or enrolled charging network provider and may remove affected information from the CEC's database upon finding that an applicable requirement of this Article is not being met.

(c) Retention of Records Recordkeeping and reporting agents shall retain all data, forms, information, and all other records required by this Article:

(A) For at least two years after the record was generated, except as specified in section 3125(c) and (d), and section 3126(a) and (b); and

(B) In a manner allowing ready access by the Executive Director on request.

(d) Appeal to CEC. Within 30 days of any decision or determination made by the Executive Director pursuant to this Article, any entity subject to the part of the decision or determination at issue may appeal the decision or determination to the CEC. The following procedures apply to the appeal:

(1) The appeal shall be signed by the appellant, and filed with the CEC's Docket Unit by mail or email, as set forth in sections 1208 and 1208.1. The appeal shall consist of a written argument, stating the grounds for modifying or reversing the decision, identifying the statutes and regulations relevant to the appeal, and stating whether an oral hearing is requested. The appeal shall include a copy of all relevant notices, responses, correspondence, documents, and decisions.

(2) Within 30 days after the date the appeal was filed, the Executive Director shall provide the appellant and the CEC a written decision or determination, stating the grounds for affirming, modifying, or reversing the decision, identifying the statutes and regulations relevant to the appeal, and stating whether an oral hearing is requested. The Executive Director's written decision or determination shall also be accompanied by any relevant notices, responses, correspondences, documents, and decisions not previously provided by the appellant.

(3) CEC Consideration of Appeal:

(A) The proceedings on appeal shall be conducted using informal hearing procedures in a manner consistent with Government Code sections 11425.10 and 11445.10 and Title 20 CCR sections 1200 through 1216. The Chair may appoint a committee to conduct proceedings including an oral hearing, if any. If the Chair appoints a committee, the presiding member of the committee shall prepare a proposed decision for consideration at a 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.

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 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.	
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.	file shall contain all instances of the relevant PDU that have been transmitted between the CSMS and all applicable chargers or charging ports during the reporting period. Note: **Please note that gzip is different then zip compression, for compression purpose use the gzip standard.** **Example:** **# Mac/Linux users** **gzip authorizeresponse_2025080119.csv** **# Windows users (with 7-zip or similar)** **gzip authorizeresponse_2025080119.csv** 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. 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. 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. 5. Any empty fields in a PDU can be left blank or null in the corresponding row and column of the csv. 6. Some fields specified in OCPP 2.0.1 are intentionally omitted. 7. Reference section 3125(b) of the EV charger regulations. 8. Certain messages are contained in the transport layer for each PDU. 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

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
authorize_request_id_token_id_token	authorizeRequest.idToken.idToken	string	IdToken is case insensitive. Might hold the hidden id of an RFID tag, but can for example also contain a UUID.	OCPP
authorize_request_id_token_type	authorizeRequest.idToken.type	string	Must contain one of [Central, eMAID, ISO14443, ISO15693, KeyCode, Local, MacAddress, NoAuthorization]	OCPP
authorize_request_id_token_additional_info_additional_id_token	authorizeRequest.idToken.additionalInfo.additionalIdToken	string	This field specifies the additional IdToken.	OCPP
authorize_request_id_token_additional_info_type	authorizeRequest.idToken.additionalInfo.type	string	This defines the type of the additionalIdToken.	OCPP

Required OCPP Protocol Data Unit 4: AuthorizeResponse

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 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
authorize_response_certificate_status	authorizeResponse.certificateStatus	string	Must contain one of: "Accepted", "SignatureError", "CertificateExpired", "CertificateRevoked", "NoCertificateAvailable", "CertChainError", "ContractCancelled"	OCPP
authorize_response_id_token_info_status	authorizeResponse.idTokenInfo.status	string	Must contain one of: "Accepted", "Blocked", "ConcurrentTx", "Expired", "Invalid", "NoCredit", "NotAllowedTypeEVSE", "NotAtThisLocation", "NotAtThisTime", "Unknown"	OCPP
authorize_response_id_token_info_cache_expiry_date_time	authorizeResponse.idTokenInfo.cacheExpiryDateTime	dateTime	Date and Time after which the token must be considered invalid.	OCPP
authorize_response_id_token_info_charging_priority	authorizeResponse.idTokenInfo.chargingPriority	integer	Priority from a business point of view. Default priority is 0, The range is from -9 to 9. Higher values indicate a higher priority.	OCPP
authorize_response_id_token_info_language1	authorizeResponse.idTokenInfo.language1	string	Preferred user interface language of identifier user.	OCPP
authorize_response_id_token_info_evse_id	authorizeResponse.idTokenInfo.evseId	integer	Only used when the IdToken is only valid for one or more specific EVSEs, not for the entire Charging Station.	OCPP
authorize_response_id_token_info_language2	authorizeResponse.idTokenInfo.language2	string	Second preferred user interface language of identifier user.	OCPP
authorize_response_id_token_info_group_id_token_id_token	authorizeResponse.idTokenInfo.groupIdToken.idToken	string	IdToken is case insensitive. Might hold the hidden id of an RFID tag, but can for example also contain a UUID.	OCPP
authorize_response_id_token_info_group_id_token_type	authorizeResponse.idTokenInfo.groupIdToken.type	string	Must contain one of: "Central", "eMAID", "ISO14443", "ISO15693", "KeyCode", "Local", "MacAddress", "NoAuthorization"	OCPP
authorize_response_id_token_info_group_id_token_additional_info_additional_id_token	authorizeResponse.idTokenInfo.groupIdToken.additionalInfo.additionalIdToken	string	This field specifies the additional IdToken.	OCPP
authorize_response_id_token_info_group_id_token_additional_info_type	authorizeResponse.idTokenInfo.groupIdToken.additionalInfo.type	string	This defines the type of the additionalIdToken.	OCPP
authorize_response_id_token_info_personal_message_format	authorizeResponse.idTokenInfo.personalMessage.format	string	Must contain one of: "ASCII", "HTML", "URI", "UTF8"	OCPP
authorize_response_id_token_info_personal_message_language	authorizeResponse.idTokenInfo.personalMessage.language	string	Message language identifier. Contains a language code as defined in [RFC5646].	OCPP
authorize_response_id_token_info_personal_message_content	authorizeResponse.idTokenInfo.personalMessage.content	string	Message contents.	OCPP

Required OCPP Protocol Data Unit 5: RequestStartTransactionRequest

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 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
request_start_transaction_request_evse_id	requestStartTransactionRequest.evseId	integer	Number of the EVSE on which to start the transaction. EvseId SHALL be > 0	OCPP
request_start_transaction_request_remote_start_id	requestStartTransactionRequest.remoteStartId	integer	Id given by the server to this start request.	OCPP
request_start_transaction_request_id_token_id_token	requestStartTransactionRequest.idToken.idToken	string	IdToken is case insensitive. Might hold the hidden id of an RFID tag, but can for example also contain a UUID.	OCPP
request_start_transaction_request_id_token_type	requestStartTransactionRequest.idToken.type	string	Must contain one of: "Central", "eMAID", "ISO14443", "ISO15693", "KeyCode", "Local", "MacAddress", "NoAuthorization"	OCPP
request_start_transaction_request_id_token_additional_info_additional_id_token	requestStartTransactionRequest.idToken.additionalInfo.additionalIdToken	string	This field specifies the additional IdToken.	OCPP
request_start_transaction_request_id_token_additional_info_type	requestStartTransactionRequest.idToken.additionalInfo.type	string	This defines the type of the additionalIdToken.	OCPP
request_start_transaction_request_charging_profile_id	requestStartTransactionRequest.chargingProfile.id	integer	Id of ChargingProfile.	OCPP
request_start_transaction_request_charging_profile_stack_level	requestStartTransactionRequest.chargingProfile.stackLevel	integer	Value determining level in hierarchy stack of profiles.	OCPP
request_start_transaction_request_charging_profile_charging_profile_purpose	requestStartTransactionRequest.chargingProfile.chargingProfilePurpose	string	Must contain one of: "ChargingStationExternalConstraints", "ChargingStationMaxProfile", "TxDefaultProfile", "TxProfile"	OCPP
request_start_transaction_request_charging_profile_charging_profile_kind	requestStartTransactionRequest.chargingProfile.chargingProfileKind	string	Must contain one of: "Absolute", "Recurring", "Relative"	OCPP
request_start_transaction_request_charging_profile_recurrency_kind	requestStartTransactionRequest.chargingProfile.recurrencyKind	string	Must be one of "Daily" or "Weekly"	OCPP
request_start_transaction_request_charging_profile_valid_from	requestStartTransactionRequest.chargingProfile.validFrom	dateTime	Point in time at which the profile starts to be valid. If absent, the profile is valid as soon as it is received by the Charging Station.	OCPP
request_start_transaction_request_charging_profile_valid_to	requestStartTransactionRequest.chargingProfile.validTo	dateTime	Point in time at which the profile stops to be valid. If absent, the profile is valid until it is replaced by another profile.	OCPP
request_start_transaction_request_charging_profile_transaction_id	requestStartTransactionRequest.chargingProfile.transactionId	string	SHALL only be included when ChargingProfilePurpose is set to TxProfile in a SetChargingProfileRequest. The transactionId is used to match the profile to a specific transaction.	OCPP
request_start_transaction_request_charging_profile_charging_schedule_id	requestStartTransactionRequest.chargingProfile.chargingSchedule.id	integer	Identifies the ChargingSchedule	OCPP
request_start_transaction_request_charging_profile_charging_schedule_start_schedule	requestStartTransactionRequest.chargingProfile.chargingSchedule.startSchedule	dateTime	Starting point of an absolute or recurring schedule.	OCPP
request_start_transaction_request_charging_profile_charging_schedule_duration	requestStartTransactionRequest.chargingProfile.chargingSchedule.duration	integer	Duration of the charging schedule in seconds. If the duration is left empty, the last period will continue indefinitely or until end of the transaction if chargingProfilePurpose = TxProfile.	OCPP
request_start_transaction_request_charging_profile_charging_schedule_charging_rate_unit	requestStartTransactionRequest.chargingProfile.chargingSchedule.chargingRateUni	string	Must be one of "W" for Watts (power) or "A" for Amperes (current)	OCPP
request_start_transaction_request_charging_profile_charging_schedule_min_charging_rate	requestStartTransactionRequest.chargingProfile.chargingSchedule.minChargingRate	decimal	Minimum charging rate supported by the EV. The unit of measure is defined by the chargingRateUnit. This parameter is intended to be used by a local smart charging algorithm to optimize the power allocation for in the case a charging process is inefficient at lower charging rates. Accepts at most one digit fraction (e.g. 8.1)	OCPP
request_start_transaction_request_charging_profile_charging_schedule_charging_schedule_period_start	requestStartTransactionRequest.chargingProfile.chargingSchedule.chargingSchedul	integer	Start of the period, in seconds from the start of schedule. The value of StartPeriod also defines the stop time of the previous period	OCPP
request_start_transaction_request_charging_profile_charging_schedule_charging_schedule_period_limit	requestStartTransactionRequest.chargingProfile.chargingSchedule.chargingSchedul	decimal	Charging rate limit during the schedule period, in the applicable chargingRateUnit, for example in Amperes (A) or Watts (W). Accepts at most one digit fraction (e.g. 8.1).	OCPP
request_start_transaction_request_charging_profile_charging_schedule_charging_schedule_period_num	requestStartTransactionRequest.chargingProfile.chargingSchedule.chargingSchedul	integer	The number of phases that can be used for charging. For a DC EVSE this field should be omitted. For an AC EVSE a default value of numberPhases = 3 will be assumed if the field is absent.	OCPP

request_start_transaction_request_charging_profile_charging_schedule_charging_schedule_period_phas	requestStartTransactionRequest.chargingProfile.chargingSchedule.chargingSchedul	integer	Values: 1..3, Used if numberPhases=1 and if the EVSE is capable of switching the phase connected to the EV, i.e. ACPhaseSwitchingSupported is defined and true. It's not allowed unless both conditions above are true. If both conditions are true, and phaseToUse is omitted, the Charging Station / EVSE will make the selection on its own.	OCPP
request_start_transaction_request_charging_profile_charging_schedule_sales_tariff_id	requestStartTransactionRequest.chargingProfile.chargingSchedule.salesTariff.id	integer	SalesTariff identifier used to identify one sales tariff. An SAID remains a unique identifier for one schedule throughout a charging session.	OCPP
request_start_transaction_request_charging_profile_charging_schedule_sales_tariff_sales_tariff_descrip	requestStartTransactionRequest.chargingProfile.chargingSchedule.salesTariff.salesT	string	A human readable title/short description of the sales tariff e.g. for HMI display purposes.	OCPP
request_start_transaction_request_charging_profile_charging_schedule_sales_tariff_num_e_price_levels	requestStartTransactionRequest.chargingProfile.chargingSchedule.salesTariff.numE	integer	Defines the overall number of distinct price levels used across all provided SalesTariff elements	OCPP
request_start_transaction_request_charging_profile_charging_schedule_sales_tariff_sales_tariff_entry_e	requestStartTransactionRequest.chargingProfile.chargingSchedule.salesTariff.salesT	integer	Defines the price level of this SalesTariffEntry (referring to NumEPriceLevels). Small values for the EPriceLevel represent a cheaper TariffEntry. Large values for the EPriceLevel represent a more expensive TariffEntry.	OCPP
request_start_transaction_request_charging_profile_charging_schedule_sales_tariff_sales_tariff_entry_r	requestStartTransactionRequest.chargingProfile.chargingSchedule.salesTariff.salesT	integer	Start of the interval, in seconds from NOW	OCPP
request_start_transaction_request_charging_profile_charging_schedule_sales_tariff_sales_tariff_entry_r	requestStartTransactionRequest.chargingProfile.chargingSchedule.salesTariff.salesT	integer	Duration of the interval, in seconds.	OCPP
request_start_transaction_request_charging_profile_charging_schedule_sales_tariff_sales_tarrif_entry_c	requestStartTransactionRequest.chargingProfile.chargingSchedule.salesTariff.salesT	decimal	The lowest level of consumption that defines the starting point of this consumption block. The block interval extends to the start of the next interval.	OCPP
request_start_transaction_request_charging_profile_charging_schedule_sales_tariff_sales_tarrif_entry_c	requestStartTransactionRequest.chargingProfile.chargingSchedule.salesTariff.sales TariffEntry.consumptionCost.cost.costKind	string	Must contain one of: "CarbonDioxideEmiss ion", "RelativePricePercen tage", "RenewableGeneratio nPercentage"	OCPP
request_start_transaction_request_charging_profile_charging_schedule_sales_tariff_sales_tarrif_entry_c	requestStartTransactionRequest.chargingProfile.chargingSchedule.salesTariff.salesT	integer	The estimated or actual cost per kWh	OCPP
request_start_transaction_request_charging_profile_charging_schedule_sales_tariff_sales_tarrif_entry_c	requestStartTransactionRequest.chargingProfile.chargingSchedule.salesTariff.salesT	integer	-3..3, The amountMultiplier defines the exponent to base 10 (dec). The final value is determined by: amount * 10 ^ amountMultiplier	OCPP
request_start_transaction_request_group_id_token_id_token	requestStartTransactionRequest.groupIdToken.idToken	string	IdToken is case insensitive. Might hold the hidden id of an RFID tag, but can for example also contain a UUID.	OCPP
request_start_transaction_request_group_id_token_type	requestStartTransactionRequest.groupIdToken.type	string	Must contain one of: "Central", "eMAID", "ISO14443", "ISO15693", "KeyCode", "Local", "MacAddress", "NoAuthorization"	OCPP
request_start_transaction_request_group_id_token_additional_info_additional_id_token	requestStartTransactionRequest.groupIdToken.additionalInfo.additionalIdToken	string	This field specifies the additional IdToken.	OCPP
request_start_transaction_request_group_id_token_additional_info_type	requestStartTransactionRequest.groupIdToken.additionalInfo.type	string	This defines the type of the additionalIdToken. This is a custom type, so the implementation needs to be agreed upon by all involved parties	OCPP

Required OCPP Protocol Data Unit 6: StatusNotificationRequest

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
is_pdu_confidential		boolean	Indicates the PDU and all fields are confidential	Metadata
status_notification_request_timestamp	statusNotificationRequest.timestamp	dateTime	The time for which the status is reported.	OCPP
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
status_notification_request_connector_status	statusNotificationRequest.connectorStatus	string	Must contain one of: "Available", "Occupied", "Reserved", "Unavailable", "Faulted"	OCPP
status_notification_request_evse_id	statusNotificationRequest.evseId	integer	The id of the EVSE to which the connector belongs for which the the status is reported.	OCPP
status_notification_request_connector_id	statusNotificationRequest.connectorId	integer	The id of the connector within the EVSE for which the status is reported.	OCPP

Required OCPP Protocol Data Unit 7: TransactionEventRequest

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
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
transaction_event_request_event_type	transactionEventRequest.eventType	string	Must contain one of the following: "Ended", "Started", "Updated"	OCPP
transaction_event_request_timestamp	transactionEventRequest.timestamp	dateTime	The date and time at which this transaction event occurred.	OCPP
transaction_event_request_trigger_reason	transactionEventRequest.triggerReason	string	Must contain one of the following: "Authorized", "CablePluggedIn", "ChargingRateChanged", "ChargingStateChanged", "Deauthorized", "EnergyLimitReached", "EVCommunicationLost", "EVConnectTimeout", "MeterValueClock", "MeterValuePeriodic", "TimeLimitReached", "Trigger", "UnlockCommand", "StopAuthorized", "EVDeparted", "EVDetected", "RemoteStop", "RemoteStart", "AbnormalCondition", "SignedDataReceived", "ResetCommand"	OCPP
transaction_event_request_seq_no	transactionEventRequest.seqNo	integer	Incremental sequence number, helps with determining if all messages of a transaction have been received.	OCPP
transaction_event_request_offline	transactionEventRequest.offline	boolean	Indication that this transaction event happened when the Charging Station was offline.	OCPP
transaction_event_request_number_of_phases_used	transactionEventRequest.numberOfPhasesUsed	integer	If the Charging Station is able to report the number of phases used, then it SHALL provide it.	OCPP
transaction_event_request_cable_max_current	transactionEventRequest.cableMaxCurrent	integer	The maximum current of the connected cable in Ampere (A).	OCPP
transaction_event_request_reservation_id	transactionEventRequest.reservationId	integer	This contains the Id of the reservation that terminates as a result of this transaction.	OCPP
transaction_event_request_transaction_info_transaction_id	transactionEventRequest.transactionInfo.transactionId	string	This contains the Id of the transaction.	OCPP
transaction_event_request_transaction_info_charging_state	transactionEventRequest.transactionInfo.chargingState	string	Must contain one of: "Charging", "EVConnected", "SuspendedEV", "SuspendedEVSE", "Idle"	OCPP
transaction_event_request_transaction_info_time_spent_charging	transactionEventRequest.transactionInfo.timeSpentCharging	integer	Contains the total time that energy flowed from EVSE to EV during the transaction (in seconds).	OCPP
transaction_event_request_transaction_info_stopped_reason	transactionEventRequest.transactionInfo.stoppedReason	string	Must contain one of: "DeAuthorized", "EmergencyStop", "EnergyLimitReached", "EVDisconnected", "GroundFault", "ImmediateReset", "Local", "LocalOutOfCredit", "MasterPass", "Other", "OvercurrentFault", "PowerLoss", "PowerQuality", "Reboot", "Remote", "SOCLimitReached"	OCPP
transaction_event_request_transaction_info_remote_start_id	transactionEventRequest.transactionInfo.remoteStartId	integer	The ID given to remote start request (RequestStartTransactionRequest.	OCPP
transaction_event_request_id_token_type	transactionEventRequest.idToken.type	string	Must contain one of: "Central", "eMAID", "ISO14443", "ISO15693", "KeyCode", "Local", "MacAddress", "NoAuthorization"	OCPP
transaction_event_request_id_token_additional_info_additional_id_token	transactionEventRequest.idToken.additionalInfo.additionalIdToken	string	This field specifies the additional IdToken.	OCPP
transaction_event_request_id_token_additional_info_type	transactionEventRequest.idToken.additionalInfo.type	string	This defines the type of the additionalIdToken.	OCPP
transaction_event_request_evse_id	transactionEventRequest.evse.id	integer	EVSE Identifier.	OCPP
transaction_event_request_evse_connector_id	transactionEventRequest.evse.connectorId	integer	An id to designate a specific connector (on an EVSE) by connector index number.	OCPP
transaction_event_request_meter_value_timestamp	transactionEventRequest.meterValue.timestamp	dateTime	Timestamp for measured value(s).	OCPP
transaction_event_request_meter_value_sampled_value_value	transactionEventRequest.meterValue.sampledValue.value	decimal	Indicates the measured value.	OCPP
transaction_event_request_meter_value_sampled_value_context	transactionEventRequest.meterValue.sampledValue.context	string	Must contain one of: "Interruption.Begin", "Interruption.End", "Other", "Sample.Clock", "Sample.Periodic", "Transaction.Begin", "Transaction.End", "Trigger"	OCPP
transaction_event_request_meter_value_sampled_value_measurand	transactionEventRequest.meterValue.sampledValue.measurand	string	Must contain on of: "Current.Import", "Current.Offered", "Energy.Active.Export.Register", "Energy.Active.Import.Register", "Energy.Reactive.Export.Register", "Energy.Reactive.Import.Register", "Energy.Active.Export.Interval", "Energy.Active.Import.Interval", "Energy.Active.Net", "Energy.Reactive.Export.Interval", "Energy.Reactive.Import.Interval", "Energy.Reactive.Net", "Energy.Apparent.Net", "Energy.Apparent.Import", "Energy.Apparent.Export", "Frequency", "Power.Active.Export", "Power.Active.Import", "Power.Factor", "Power.Offered", "Power.Reactive.Export", "Power.Reactive.Import", "SoC", "Voltage"	OCPP
transaction_event_request_meter_value_sampled_value_phase	transactionEventRequest.meterValue.sampledValue.phase	string	Must contain one of: "L1", "L2", "L3", "N", "L1-N", "L2-N", "L3-N", "L1-L2", "L2-L3", "L3-L1"	OCPP

transaction_event_request_meter_value_sampled_value_location	transactionEventRequest.meterValue.sampledValue.location	string	Must contain one of: "Body", "Cable", "EV", "Inlet", "Outlet"	OCPP
transaction_event_request_meter_value_sampled_value_signed_meter_value_signed_meter_data	transactionEventRequest.meterValue.sampledValue.signedMeterValue.signedMete	string	Base64 encoded, contains the signed data which might contain more then just the meter value.	OCPP
transaction_event_request_meter_value_sampled_value_signed_meter_value_signing_method	transactionEventRequest.meterValue.sampledValue.signedMeterValue.signingMet	string	Method used to create the digital signature.	OCPP
transaction_event_request_meter_value_sampled_value_signed_meter_value_encoding_method	transactionEventRequest.meterValue.sampledValue.signedMeterValue.encodingM	string	Method used to encode the meter values before applying the digital signature algorithm.	OCPP
transaction_event_request_meter_value_sampled_value_signed_meter_value_public_key	transactionEventRequest.meterValue.sampledValue.signedMeterValue.publicKey	string	Base64 encoded, sending depends on configuration variable PublicKeyWithSignedMeterValue.	OCPP
transaction_event_request_meter_value_sampled_value_unit_of_measure_unit	transactionEventRequest.meterValue.sampledValue.unitOfMeasure.unit	string	Unit of the value.	OCPP
transaction_event_request_meter_value_sampled_value_unit_of_measure_multiplier	transactionEventRequest.meterValue.sampledValue.unitOfMeasure.multiplier	integer	Multiplier, this value represents the exponent to base 10.	OCPP

Required OCPP Protocol Data Unit 8: BootNotificationRequest

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 received 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_request_reason	bootNotificationRequest.reason	string	Must contain one of [ApplicationReset, FirmwareUpdate, LocalReset, PowerUp, RemoteReset, ScheduledReset, Triggered, Unknown, Watchdog]	OCPP
boot_notification_request_charging_station_serial_number	bootNotificationRequest.chargingStation.serialNumber	string	Vendor-specific device identifier.	OCPP
boot_notification_request_charging_station_model	bootNotificationRequest.chargingStation.model	string	Defines the model of the device.	OCPP
boot_notification_request_charging_station_vendor_name	bootNotificationRequest.chargingStation.vendorName	string	Identifies the vendor (not necessarily in a unique manner).	OCPP
boot_notification_request_charging_station_firmware_version	bootNotificationRequest.chargingStation.firmwareVersion	string	This contains the firmware version of the Charging Station.	OCPP
boot_notification_request_charging_station_modem_iccid	bootNotificationRequest.chargingStation.modem.iccid	string	This contains the ICCID of the modem's SIM card.	OCPP
boot_notification_request_charging_station_modem_imsi	bootNotificationRequest.chargingStation.modem.imsi	string	This contains the IMSI of the modem's SIM card.	OCPP

Required OCPP Protocol Data Unit 9: NotifyEventRequest

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
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
notify_event_request_generated_at	notifyEventRequest.generatedAt	dateTime	Timestamp of the moment this message was generated at the Charging Station.	OCPP
notify_event_request_seq_no	notifyEventRequest.seqNo	integer	Sequence number of this message. First message starts at 0.	OCPP
notify_event_request_event_data_event_id	notifyEventRequest.eventData.eventId	integer	Identifies the event. This field can be referred to as a cause by other events.	OCPP
notify_event_request_event_data_timestamp	notifyEventRequest.eventData.timestamp	dateTime	Timestamp of the moment the report was generated.	OCPP
notify_event_request_event_data_trigger	notifyEventRequest.eventData.trigger	string	Must contain one of [Alerting, Delta, Periodic]	OCPP

notify_event_request_event_data_cause	notifyEventRequest.eventData.cause	integer	Refers to the Id of an event that is considered to be the cause for this event.	OCPP
notify_event_request_event_data_actual_value	notifyEventRequest.eventData.actualValue	string	Actual value (attributeType Actual) of the variable.	OCPP
notify_event_request_event_data_tech_code	notifyEventRequest.eventData.techCode	string	Technical (error) code as reported by component	OCPP
notify_event_request_event_data_tech_info	notifyEventRequest.eventData.techInfo	string	Technical detail information as reported by component.	OCPP
notify_event_request_event_data_cleared	notifyEventRequest.eventData.cleared	boolean	Cleared is set to true to report the clearing of a monitored situation, i.e. a 'return to normal'.	OCPP
notify_event_request_event_data_transaction_id	notifyEventRequest.eventData.transactionId	string	If an event notification is linked to a specific transaction, this field can be used to specify its transactionId.	OCPP
notify_event_request_event_data_variable_monitoring_id	notifyEventRequest.eventData.variableMonitoringId	integer	dentifies the VariableMonitoring which triggered the event.	OCPP
notify_event_request_event_data_event_notification	notifyEventRequest.eventData.eventNotification	string	Must be one of [HardWiredNotificati on, HardWiredMonitor , PreconfiguredMonit or, CustomMonitor]	OCPP
notify_event_request_event_data_component_name	notifyEventRequest.eventData.component.name	string	Name of the component.	OCPP
notify_event_request_event_data_component_instance	notifyEventRequest.eventData.component.instance	string	Name of instance in case the component exists as multiple instances	OCPP
notify_event_request_event_data_component_evse_id	notifyEventRequest.eventData.component.evse.id	integer	EVSE Identifier. This contains a number (> 0) designating an EVSE of the Charging Station.	OCPP
notify_event_request_event_data_component_evse_connector_id	notifyEventRequest.eventData.component.evse.connectorId	integer	An id to designate a specific connector (on an EVSE) by connector index number.	OCPP
notify_event_request_event_data_variable_name	notifyEventRequest.eventData.variable.name	string	Name of the variable	OCPP
notify_event_request_event_data_variable_instance	notifyEventRequest.eventData.variable.instance	string	Name of instance in case the variable exists as multiple instances	OCPP

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.	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. 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. 2. Identification of Recordkeeping and reporting agents required by subsection 3123(b) of the EV Charger Regulations is satisfied by booleans identifiying whether each of the contacts are recordkeeping and reporting agents.
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.	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
Uptime Reporting	Comma separated values (.csv) file specification for the uptime data detailed in Module 2 of the Data Dictionary.	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
Excluded Downtime Reporting	Comma separated values (.csv) file specification for the excluded downtime data detailed in Module 3 of the Data Dictionary.	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

Semiannual Charger Data Reporting Specification

Module 1: Contact Information and Inventory Reporting

Column Name	EV Charger Regulation Reference	Data Type	Decimals	Lookup Table	Options	Column Description	Example 1: charger_id: ABX-123 port_id: 1	Example 2: charger_id: ABX-123 port_id: 2	Chargers generally required to report this data field. See subsection 3123(c) of the regualtions for a complete list of chargers exempt from reporting.
reporting_calendar_year	3123(a)	Integer		None	None	The four-digit year of reporting.	2024	2024	All chargers
reporting_period	3123(a)	String		Yes	H1, H2	"H1" = Jan 1 - Jun 30; "H2" = Jul 1 - Dec 31	H2	H2	All chargers
is_charging_network_provider_record_keeping_and_reporting_agent	3123(b)(1)(A)(2)	Boolean		None	TRUE, FALSE	Identifies if the charge network provider is also the reporting agent.	TRUE	TRUE	All chargers
charging_network_provider_name	3123(b)(1)(A)(3)	String		None	None	The name of the charging network provider.	GridSystems	GridSystems	Networked chargers
charging_network_provider_street_address_1	3123(b)(1)(A)(3)	String		None	None	Primary address line: house/building number, street name and suffix, using USPS abbreviations (e.g. "123 Main St").	123 Main St.	123 Main St.	Networked chargers
charging_network_provider_street_address_2	3123(b)(1)(A)(3)	String		None	None	Secondary address designator: apartment, suite, unit, floor, building, etc., using USPS standard abbreviations; leave blank if not applicable.			Networked chargers
charging_network_provider_city	3123(b)(1)(A)(3)	String		None	None	The city of the charging network provider.	San Francisco	San Francisco	Networked chargers
charging_network_provider_state	3123(b)(1)(A)(3)	String		None	None	The two letter state abbreviation of the charging network provider.	CA	CA	Networked chargers
charging_network_provider_zip_code	3123(b)(1)(A)(3)	String		None	None	The ZIP code of the charging network provider.	94102	94102	Networked chargers
charging_network_provider_email_address	3123(b)(1)(A)(3)	String		None	None	The email address of the charging network provider.	jane.martinez@gridsystems.com	jane.martinez@gridsystems.com	Networked chargers
charging_network_provider_telephone_number	3123(b)(1)(A)(3)	String		None	None	The telephone number of the charging network provider. Please	14152345678	14152345678	Networked chargers
charging_network_provider_website_url	3123(b)(1)(A)(3)	String		None	None	The website URL of the charging network provider.	https://www.gridsystems.com	https://www.gridsystems.com	Networked chargers
is_charging_station_operator_record_keeping_and_reporting_agent	3123(b)(1)(A)(2)	Boolean		None	TRUE, FALSE	Identifies if the charging station operator is also the reporting agent	FALSE	FALSE	All chargers
charging_station_operator_name	3123(b)(1)(A)(4)	String		None	None	The name of the charging station operator.	GridSystems	GridSystems	All chargers
charging_station_operator_street_address_1	3123(b)(1)(A)(4)	String		None	None	Primary address line: house/building number, street name and suffix, using USPS abbreviations (e.g. "123 Main St").	1234 Main St.	1234 Main St.	All chargers
charging_station_operator_street_address_2	3123(b)(1)(A)(4)	String		None	None	Secondary address designator: apartment, suite, unit, floor, building, etc., using USPS standard abbreviations; leave blank if not applicable.			All chargers
charging_station_operator_city	3123(b)(1)(A)(4)	String		None	None	The city of the charging station operator.	San Francisco	San Francisco	All chargers
charging_station_operator_state	3123(b)(1)(A)(4)	String		None	None	The state of the charging station operator.	CA	CA	All chargers
charging_station_operator_zip_code	3123(b)(1)(A)(4)	String		None	None	The ZIP code of the charging station operator.	94102	94102	All chargers
charging_station_operator_email_address	3123(b)(1)(A)(4)	String		None	None	The email address of the charging station operator.	jane.martinez@gridsystems.com	jane.martinez@gridsystems.com	All chargers
charging_station_operator_telephone_number	3123(b)(1)(A)(4)	String		None	None	The telephone number of the charging station operator. Please	14152345678	14152345678	All chargers
charging_station_operator_website_url	3123(b)(1)(A)(4)	String		None	None	The website URL of the charging station operator	https://www.gridsystems.com	https://www.gridsystems.com	All chargers
is_charging_funding_recipient_record_keeping_and_reporting_agent	3123(b)(1)(A)(2)	Boolean		None	None	Identifies if the funding recipient is also the reporting agent.	FALSE	FALSE	Publicly or ratepayer funded chargers
charging_funding_recipient_name	3123(b)(1)(A)(5)	String		None	None	The name of the charging funding recipient.	ABC School District	ABC School District	Publicly or ratepayer funded chargers
charging_funding_recipient_street_address_1	3123(b)(1)(A)(5)	String		None	None	Primary address line: house/building number, street name and suffix, using USPS abbreviations (e.g. "123 Main St").	345 School Way	345 School Way	Publicly or ratepayer funded chargers
charging_funding_recipient_street_address_2	3123(b)(1)(A)(5)	String		None	None	Secondary address designator: apartment, suite, unit, floor, building, etc., using USPS standard abbreviations; leave blank if not applicable.			Publicly or ratepayer funded chargers
charging_funding_recipient_city	3123(b)(1)(A)(5)	String		None	None	The city of the charging funding recipient.	San Francisco	San Francisco	Publicly or ratepayer funded chargers
charging_funding_recipient_state	3123(b)(1)(A)(5)	String		None	None	The state of the charging funding recipient.	CA	CA	Publicly or ratepayer funded chargers
charging_funding_recipient_zip_code	3123(b)(1)(A)(5)	String		None	None	The ZIP code of the charging funding recipient.	94107	94107	Publicly or ratepayer funded chargers
charging_funding_recipient_email_address	3123(b)(1)(A)(5)	String		None	None	The email address of the charging funding recipient.	john.doe@abcschooldistrict.com	john.doe@abcschooldistrict.com	Publicly or ratepayer funded chargers
charging_funding_recipient_telephone_number	3123(b)(1)(A)(5)	String		None	None	The telephone number of the charging funding recipient. Please use only numbers including country code, area code, and number	14151234567	14151234567	Publicly or ratepayer funded chargers
charging_funding_recipient_website_url	3123(b)(1)(A)(5)	String		None	None	The website URL of the charging funding recipient.	https://www.abcschooldistrict.com	https://www.abcschooldistrict.com	Publicly or ratepayer funded chargers
is_charging_site_host_record_keeping_and_reporting_agent	3123(b)(1)(A)(2)	Boolean		None	TRUE, FALSE	Identifies if the charging site host is also the reporting agent	FALSE	FALSE	All chargers
charging_site_host_name	3123(b)(1)(A)(6)	String		None	None	The name of the charging site host.	Vons	Vons	All chargers
charging_site_host_street_address_1	3123(b)(1)(A)(6)	String		None	None	Primary address line: house/building number, street name and suffix, using USPS abbreviations (e.g. "123 Main St").	1814 19th St.	1814 19th St.	All chargers
charging_site_host_street_address_2	3123(b)(1)(A)(6)	String		None	None	Secondary address designator: apartment, suite, unit, floor, building, etc., using USPS standard abbreviations; leave blank if not applicable.			All chargers
charging_site_host_city	3123(b)(1)(A)(6)	String		None	None	The city of the charging site host.	Sacramento	Sacramento	All chargers
charging_site_host_state	3123(b)(1)(A)(6)	String		None	None	The state of the charging site host.	CA	CA	All chargers
charging_site_host_zip_code	3123(b)(1)(A)(6)	String		None	None	The ZIP code of the charging site host.	95811	95811	All chargers
charging_site_host_email_address	3123(b)(1)(A)(6)	String		None	None	The email address of the charging site host.	John.Doe@vons.com	John.Doe@vons.com	All chargers
charging_site_host_telephone_number	3123(b)(1)(A)(6)	String		None	None	The telephone number of the charging site host. Please use only numbers including country code, area code, and number	19162345678	19162345678	All chargers
charging_site_host_website_url	3123(b)(1)(A)(6)	String		None	None	Optional: The website URL of the charging site host if it exists	https://www.vons.com/store123	https://www.vons.com/store123	All chargers
reporting_designee_name	3123(b)(1)(B)	String		None	None	The name of the reporting designee.	EV Reporting LLC	EV Reporting LLC	All chargers
reporting_designee_street_address_1	3123(b)(1)(B)	String		None	None	Primary address line: house/building number, street name and suffix, using USPS abbreviations (e.g. "123 Main St").	123 Broadway St.	123 Broadway St.	All chargers
reporting_designee_street_address_2	3123(b)(1)(B)	String		None	None	Secondary address designator: apartment, suite, unit, floor, building, etc., using USPS standard abbreviations; leave blank if not applicable.			All chargers
reporting_designee_city	3123(b)(1)(B)	String		None	None	The city of the reporting designee.	San Francisco	San Francisco	All chargers
reporting_designee_state	3123(b)(1)(B)	String		None	None	The state of the reporting designee.	CA	CA	All chargers
reporting_designee_zip_code	3123(b)(1)(B)	String		None	None	The ZIP code of the reporting designee.	94107	94107	All chargers
reporting_designee_email_address	3123(b)(1)(B)	String		None	None	The email address of the reporting designee.	support@EVReporting.com	support@EVReporting.com	All chargers

reporting_designee_telephone_number	3123(b)(1)(B)	String		None	None	The telephone number of the reporting designee. Please use only numbers including country code, area code, and number	18002341234	18002341234	All chargers
reporting_designee_website_url	3123(b)(1)(B)	String		None	None	The website URL of the reporting designee.	https://www.EVReporting.com	https://www.EVReporting.com	All chargers
reporting_point_of_contact_name	3123(b)(1)(C)	String		None	None	The name of the contact person.	Michael Williams	Michael Williams	All chargers
reporting_point_of_contact_person_affiliation	3123(b)(1)(C)	String		None	None	The affiliation of the contact person.	EV Reporting LLC	EV Reporting LLC	All chargers
reporting_point_of_contact_person_telephone_number	3123(b)(1)(C)	String		None	None	The telephone number of the contact person. Please use only numbers including country code, area code, and number	14152345678	14152345678	All chargers
reporting_point_of_contact_person_email_address	3123(b)(1)(C)	String		None	None	The email address of the contact person.	michael.williams@evreporting.com	michael.williams@evreporting.com	All chargers
charger_installation_date	3123(b)(2)(A)	Date		None	None	The date when the charger was installed. YYYY-MM-DD	2023-01-01	2023-01-01	All chargers
charger_site_street_address_1	3123(b)(2)(B)	String		None	None	Primary address line: house/building number, street name and suffix, using USPS abbreviations (e.g. "123 Main St").	1814 19th St.	1814 19th St.	All chargers
charger_site_street_address_2	3123(b)(2)(B)	String		None	None	Secondary address designator: apartment, suite, unit, floor, building, etc., using USPS standard abbreviations; leave blank if not applicable.			All chargers
charger_site_city	3123(b)(2)(B)	String		None	None	The city where the charger site is located.	Sacramento	Sacramento	All chargers
charger_site_state	3123(b)(2)(B)	String		None	None	The two letter abbreviation of the state	CA	CA	All chargers
charger_site_zip_code	3123(b)(2)(B)	String		None	None	The zip code of the site where the charger is located	95811	95811	All chargers
is_charger_site_address_confidential	2505(a)(5)(B)(10)	Boolean		None	TRUE, FALSE	Indicates if the charger site address is confidential.	TRUE	TRUE	All chargers
charger_site_latitude	3123(b)(2)(C)	Decimal	4	None	None	The latitude of the site hosting the charger to four decimal places.	38.5678	38.5678	All chargers
charger_site_longitude	3123(b)(2)(C)	Decimal	4	None	None	The longitude of the site hosting the charger to four decimal places	-121.4859	-121.4859	All chargers
is_charger_site_latitude_and_longitude_confidential	2505(a)(5)(B)(10)	Boolean		None	TRUE, FALSE	Indicates if the charger site coordinates are confidential.	TRUE	TRUE	All chargers
charger_manufacturer_serial_number	3123(b)(2)(D)	String		None	None	The unique serial number of the charger.	CGTDHRGJFY	CGTDHRGJFY	All chargers
is_charger_manufacturer_serial_number_confidential	2505(a)(5)(B)(10)	Boolean		None	TRUE, FALSE	Indicates if the charger serial is confidential.	TRUE	TRUE	All chargers
charger_make	3123(b)(2)(E)	String		None	None	The manufacturer of the charger.	Tesla	Tesla	All chargers
charger_model	3123(b)(2)(E)	String		None	None	The model of the charger.	Gen 3 Wall Connector	Gen 3 Wall Connector	All chargers
charger_port_max_power_kw	3123(b)(2)(F)	Decimal	1	None	None	The maximum power in kilowatts the charger port can deliver.	7.2	7.2	All chargers
charger_max_output_voltage_volts	3123(b)(2)(G)	Decimal	1	None	None	The maximum output voltage in volts.	231.2	231.2	All chargers
is_charger_replacement	3123(b)(2)(H)	Boolean		None	TRUE, FALSE	Indicates if the charger is a replacement. If "FALSE" the new serial number will be assumed to be an additional charger that increases the total number of chargers on site.	TRUE	TRUE	All chargers
charger_manufacturer_serial_number_replaced	3123(b)(2)(H)	String		None	None	The serial number of the charger being replaced, if applicable.	DFLGKBKC-123	DFLGKBKC-123	All chargers
charger_replacement_install_date	3123(b)(2)(H)	Date		None	None	The installation date of the replacement charger, if applicable. YYYY-MM-DD	2024-02-01	2024-02-01	All chargers
is_charger_networked	3123(b)(2)(I)	Boolean		None	TRUE, FALSE	Indicates if the charger is networked.	TRUE	TRUE	All chargers
is_publicy_funded	3123(b)(2)(J)	Boolean		None	TRUE, FALSE	TRUE if any portion (>0%) was publicly funded. See regulation for definition of publicly funded.	TRUE	TRUE	All chargers
is_ratepayer_funded	3123(b)(2)(J)	Boolean		None	TRUE, FALSE	TRUE if any portion (>0%) was ratepayer funded. See regulation for definition of ratepayer funded.	FALSE	FALSE	All chargers
is_privately_funded	3123(b)(2)(J)	Boolean		None	TRUE, FALSE	TRUE if any portion (>0%) was privately funded.	TRUE	TRUE	cal
is_charger_ac	3123(b)(2)(K)	Boolean		None	TRUE, FALSE	Indicates if the charger is AC type.	TRUE	TRUE	All chargers
is_connector_sae_j1772	3123(b)(2)(L)	Boolean		None	TRUE, FALSE	TRUE or FALSE if this port has an SAE J1772 Connector	TRUE	TRUE	All chargers
is_connector_j1772_combo_ccs	3123(b)(2)(L)	Boolean		None	TRUE, FALSE	TRUE or FALSE if this port has a J1772 Combo (CCS) connector	TRUE	TRUE	All chargers
is_connector_chademo	3123(b)(2)(L)	Boolean		None	TRUE, FALSE	TRUE or FALSE if this port has a CHAdeMO Connector	FALSE	FALSE	All chargers
is_connector_sae_j3400_nacs	3123(b)(2)(L)	Boolean		None	TRUE, FALSE	TRUE or FALSE if this port has an SAE J3400 or NACS Connector	FALSE	FALSE	All chargers
is_connector_mcs	3123(b)(2)(L)	Boolean		None	TRUE, FALSE	TRUE or FALSE if this port has a MCS Connector	FALSE	FALSE	All chargers
network_provider_charger_id	3123(b)(2)(M)	String		None	None	The charger ID assigned by the network provider.	ABX-123	ABX-123	Networked chargers
network_provider_charger_port_id	3123(b)(2)(M)	String		None	None	The charger port ID assigned by the network provider. When combined with the charger-id it should uniquely identify the charger/port within the CNP. In the examples provided, the concatenated charging port ID would be abc-2.	1	2	Networked chargers
is_network_provider_charger_id_confidential	2505(a)(5)(B)(10)	Boolean		None	TRUE, FALSE	Indicates if the network provider charger ID is confidential.	TRUE	TRUE	Networked chargers
is_network_provider_charger_port_id_confidential	2505(a)(5)(B)(10)	Boolean		None	TRUE, FALSE	Indicates if the network provider charger port ID is confidential.	TRUE	TRUE	Networked chargers
charger_site_access_type	3123(b)(2)(N)(1)	String		Yes	private_access, publicly_available	The access type of the charger site.	publicly_available	publicly_available	All chargers
is_charger_vehicle_type_served_light_duty	3123(b)(2)(N)(2)(a)	Boolean		None	TRUE, FALSE	Designate if light duty vehicles are served at this site. Light-duty vehicles have a gross vehicle weight rating less than or equal to 10,000 lbs.	TRUE	TRUE	All chargers
is_charger_vehicle_type_served_medium_duty	3123(b)(2)(N)(2)(b)	Boolean		None	TRUE, FALSE	Designate if medium duty vehicles are served at this site. Medium-duty vehicle have a gross vehicle weight rating greater than 10,000 lbs and less than or equal to 26,000 lbs.	FALSE	FALSE	All chargers
is_charger_vehicle_type_served_heavy_duty	3123(b)(2)(N)(2)(c)	Boolean		None	TRUE, FALSE	Designate if heavy duty vehicles are served at this site. Heavy-duty vehicles have a gross vehicle weight rating greater than 26,000 lbs.	FALSE	FALSE	All chargers
charger_primary_use_type	3123(b)(2)(N)(3)	String		Yes	workplace_charging, publicly_available, multi_family_dwelling_greater_than_4, fleet_charging, other	The primary use type of the charger.	publicly_available	publicly_available	All chargers
charger_uninstall_date	3123(b)(2)(O)	Date		None	None	Report the uninstall date for any charger uninstalled during the reporting period otherwise leave null. YYYY-MM-DD	2024-01-20	2024-01-20	All chargers
network_provider_station_name	3123(b)(2)(P)	String		None	None	The unique Station Name assigned by the network provider.	Vons site 123	Vons site 123	Networked chargers
customer_service_phone_number	3123(b)(2)(Q)	String		None	None	Customer Service phone number if charger is broken. Please use only numbers including country code, area code, and number	16192345678	16192345678	Publicly available
is_charging_station_available_24_7	3123(b)(2)(R)	Boolean		None	TRUE, FALSE	Is the Charging Station available 24 hours 7 days a week?	TRUE	TRUE	Publicly available
weekday_hours_of_operation_local_hour_start	3123(b)(2)(R)	Integer		None	[0-23]	Weekday Local Hour that the charging station starts availability [Valid hours are 0 - 23]. If Start = 0 and End = 0, this indicates 24-hour availability.	0	0	Publicly available

weekday_hours_of_operation_local_hour_end	3123(b)(2)(R)	Integer		None	[0-23]	Weekday Local Hour that the charging station ends availability [Valid hours are 0 - 23]. If Start = 0 and End = 0, this indicates 24-hour availability.	0	0	Publicly available
is_charging_station_available_weekends	3123(b)(2)(R)	Boolean		None	TRUE, FALSE	Is the charging station available weekends	TRUE	TRUE	Publicly available
weekend_hours_of_operation_local_hour_start	3123(b)(2)(R)	Integer		None	[0-23]	Weekend Local Hour that the charging station starts availability [Valid hours are 0 - 23]. If Start = 0 and End = 0, this indicates 24-hour availability.	0	0	Publicly available
weekend_hours_of_operation_local_hour_end	3123(b)(2)(R)	Integer		None	[0-23]	Weekend Local Hour that the charging station ends availability [Valid hours are 0 - 23]. If Start = 0 and End = 0, this indicates 24-hour availability.	0	0	Publicly available
is_visa_accepted	3123(b)(2)(S)	Boolean		None	TRUE, FALSE	This station accepts payments via Visa credit card	TRUE	TRUE	Publicly available
is_mastercard_accepted	3123(b)(2)(S)	Boolean		None	TRUE, FALSE	This station accepts payments via Master Card credit card	TRUE	TRUE	Publicly available
is_amex_accepted	3123(b)(2)(S)	Boolean		None	TRUE, FALSE	This station accepts payments via American Express credit card	TRUE	TRUE	Publicly available
is_discover_accepted	3123(b)(2)(S)	Boolean		None	TRUE, FALSE	This station accepts payments via Discover credit card	TRUE	TRUE	Publicly available
is_credit_accepted	3123(b)(2)(S)	Boolean		None	TRUE, FALSE	This station accepts payments via credit card	TRUE	TRUE	Publicly available
is_debit_accepted	3123(b)(2)(S)	Boolean		None	TRUE, FALSE	This station accepts payments via debit card	TRUE	TRUE	Publicly available
is_apple_pay_accepted	3123(b)(2)(S)	Boolean		None	TRUE, FALSE	This station accepts Apple Pay as a payment source	TRUE	TRUE	Publicly available
is_android_pay_accepted	3123(b)(2)(S)	Boolean		None	TRUE, FALSE	This station accepts Android Pay as a payment source	TRUE	TRUE	Publicly available
is_account_balance_accepted	3123(b)(2)(S)	Boolean		None	TRUE, FALSE	This station can use an existing account balance to pay for station fees.	TRUE	TRUE	Publicly available
is_rfid_accepted	3123(b)(2)(T)	Boolean		None	TRUE, FALSE	This station accepts rfid as a payment technology	TRUE	TRUE	Publicly available
is_card_swipe_accepted	3123(b)(2)(T)	Boolean		None	TRUE, FALSE	This station accepts a card swipe as a payment technology	TRUE	TRUE	Publicly available
is_emv_chip_accepted	3123(b)(2)(T)	Boolean		None	TRUE, FALSE	This station accepts emv chip as a payment technology	TRUE	TRUE	Publicly available
is_plug_n_charge_accepted	3123(b)(2)(T)	Boolean		None	TRUE, FALSE	This station accepts plug n charge as a payment technology	TRUE	TRUE	Publicly available
is_qr_code_accepted	3123(b)(2)(T)	Boolean		None	TRUE, FALSE	This station accepts qr code as a payment technology	TRUE	TRUE	Publicly available
is_contactless_accepted	3123(b)(2)(T)	Boolean		None	TRUE, FALSE	This station accepts contactless as a payment technology	TRUE	TRUE	Publicly available
is_mobile_app_accepted	3123(b)(2)(T)	Boolean		None	TRUE, FALSE	This station accepts mobile app as a payment technology	TRUE	TRUE	Publicly available
is_other_payment_technology_accepted	3123(b)(2)(T)	Boolean		None	TRUE, FALSE	This station accepts some other payment technology not listed	TRUE	TRUE	Publicly available
is_pricing_structure_per_kwh	3123(b)(2)(U)	Boolean		None	TRUE, FALSE	The station has a $ / kWh pricing structure	TRUE	TRUE	Publicly available
is_demand_response_enabled	3123(b)(2)(U)	Boolean		None	TRUE, FALSE	The station is enrolled and participates in demand response	TRUE	TRUE	Publicly available
is_pricing_structure_variable_or_dynamic	3123(b)(2)(U)	Boolean		None	TRUE, FALSE	The station has variable or dynamic pricing enabled	TRUE	TRUE	Publicly available
is_pricing_structure_non_member_fee	3123(b)(2)(U)	Boolean		None	TRUE, FALSE	The station charges a non-member fee for charging	TRUE	TRUE	Publicly available
is_pricing_structure_parking_fee	3123(b)(2)(U)	Boolean		None	TRUE, FALSE	The station charges a parking fee	TRUE	TRUE	Publicly available
is_port_power_sharing_enabled	3123(b)(2)(V)	Boolean		None	TRUE, FALSE	Does this port share power with another port?	TRUE	TRUE	Publicly available

Module 2: Uptime Reporting

ColumnName	AB 2061 Regulation Reference	DataType	Decimals	LookupTable	Options	Column Description	Example 1: charger_id: ABX-123 port_id: 1	Example 2: charger_id: ABX-123 port_id: 2	Chargers generally required to report this data field. See subsection 3123(c) of the regualtions for a complete list of chargers exempt from reporting.
reporting_calendar_year	3123(a)	Integer		None	None	The four-digit year of reporting.	2024	2024	Publicly or ratepayer funded chargers
reporting_period	3123(a)	String		Yes	H1, H2	"H1" = Jan 1 - Jun 30; "H2" = Jul 1 - Dec 31	H2	H2	Publicly or ratepayer funded chargers
charging_network_provider_name	3123(b)(1)(A)(3)	String		None	None	The name of the charging network provider.	GridSystems	GridSystems	Publicly or ratepayer funded chargers
charger_manufacturer_serial_number	3123(b)(2)(D)	String		None	None	The unique serial number of the charger.	CGTDHRGJFY	CGTDHRGJFY	Publicly or ratepayer funded chargers
is_charger_manufacturer_serial_number_confidential	2505(a)(5)(B)(10)	Boolean		None	TRUE, FALSE	Indicates if the charger serial is confidential.	TRUE	TRUE	Publicly or ratepayer funded chargers
network_provider_charger_id	3123(b)(2)(M)	String		None	None	The charger ID assigned by the network provider.	ABX-123	ABX-123	Publicly or ratepayer funded chargers
network_provider_charger_port_id	3123(b)(2)(M)	String		None	None	The charger port ID assigned by the network provider. When co	1	2	Publicly or ratepayer funded chargers
charging_port_uptime_percentage_0_100	3123(b)(3)(A)	Decimal	1	None	None	The uptime percentage of the charging port. Single decimal poir	94.1	96.5	Publicly or ratepayer funded chargers

Module 3: Excluded Downtime Reporting

ColumnName	AB 2061 Regulation Reference	DataType	Decimals	LookupTable	Options	Column Description	Example 1: charger_id: ABX-123 port_id: 1	Example 2: charger_id: ABX-123 port_id: 2	Chargers generally required to report this data field. See subsection 3123(c) of the regualtions for a complete list of chargers exempt from reporting.
reporting_calendar_year	3123(a)	Integer		None	None	The four-digit year of reporting.	2024	2024	Publicly or ratepayer funded chargers
reporting_period	3123(a)	String		Yes	H1, H2	H1 = Jan 1 - Jun 30; H2 = Jul 1 - Dec 31	H2	H2	Publicly or ratepayer funded chargers
charging_network_provider_name	3123(b)(1)(A)(3)	String		None	None	The name of the charging network provider.	GridSystems	GridSystems	Publicly or ratepayer funded chargers
charger_manufacturer_serial_number	3123(b)(2)(D)	String		None	None	The unique serial number of the charger.	CGTDHRGJFY	CGTDHRGJFY	Publicly or ratepayer funded chargers
is_charger_manufacturer_serial_number_confidential	2505(a)(5)(B)(10)	Boolean		None	TRUE, FALSE	Indicates if the charger serial is confidential.	TRUE	e	Publicly or ratepayer funded chargers
network_provider_charger_id	3123(b)(2)(M)	String		None	None	The charger ID assigned by the network provider.	ABX-123	ABX-123	Publicly or ratepayer funded chargers
network_provider_charger_port_id	3123(b)(2)(M)	String		None	None	The charger port ID assigned by the network provider. When co	1	2	Publicly or ratepayer funded chargers
charger_port_excluded_downtime_category	3124(a)(2)	String		Yes	before_installation, grid_power_loss, outage_for_preventative	The category of excluded downtime for the charger port.	grid_power_loss	vandalism_or_theft	Publicly or ratepayer funded chargers
charger_port_downtime_start_timestamp_utc	3124(a)(2)	Timestamp		None	None	The timestamp when the downtime exclusion begins in UTC:	2024-08-28T17:28:57Z	2024-09-28T17:28:57Z	Publicly or ratepayer funded chargers
charger_port_downtime_end_timestamp_utc	3124(a)(2)	Timestamp		None	None	The timestamp when the downtime exclusion ends in UTC:	2024-08-29T12:28:57Z	2024-09-29T12:28:57Z	Publicly or ratepayer funded chargers