



# DEPOTFINITY

## Product Data Sheet

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VERSION 5.1

**SIEMENS**

# DepotFinity

## Product Data Sheet

DepotFinity is a cloud-based software service designed for monitoring, reporting, scheduling, and managing electric vehicle (EV) charging operations within a depot (Cloud Service). It offers three distinct packages – Basic, Advanced, and Premium – each providing escalating capabilities to meet diverse operational needs. This document outlines the technical scope and functions available with each package.

### Depot Basic

Depot Basic offers essential capabilities for managing EV charging infrastructure. It supports OCPP 1.6-compliant chargers from Siemens and third-party providers, enabling cloud-based monitoring, data storage, visualization, reporting, and access control. Users can define maximum grid limits per location, remotely reset chargers, and start or stop charging transactions.

### Depot Advanced

Building on the Basic package, Depot Advanced introduces peak load management and load shifting for improved energy efficiency. It enhances operational control through group-based access management, detailed consumption reporting by vehicle and group, and automatic charger restart after power loss. Seamless integration with existing systems is enabled via VDV463 data exchange. The package includes the *Sifinity Depot Drive* app, allowing users to start, monitor, and stop charging transactions remotely via smartphone. Dynamic vehicle preconditioning is supported through VDV261.

### Depot Premium

Depot Premium includes all features of Depot Advanced, and adds intelligent smart charging algorithms, dynamic load management, and schedule-based charging. It supports automated dispatching to enhance fleet efficiency. Designed to optimize energy usage and reduce operational costs, it offers advanced dispatch management functions such as route-to-vehicle assignment and charge planning. Fleet operators benefit from improved operational performance and maximized electric mileage.

## Prerequisites

<b>Onboarding of chargers</b>	<p>To enable communication between the charging station and the Cloud Service, an OCPPv1.6-JSON connection must be established. The following conditions must be met:</p> <ol style="list-style-type: none"> <li>The charging station must support connection via Secure WebSocket.</li> <li>HTTP Basic authentication must be supported.</li> <li>A proactive reconnection strategy must be implemented to ensure reliable connectivity.</li> <li>Non-Siemens chargers must undergo integration testing prior to onboarding to verify compatibility with the Cloud Service's features. Additional integration testing is required before deploying new firmware versions across the charger fleet.</li> </ol> <p>The Customer is responsible for ensuring that non-Siemens chargers successfully pass integration testing and for covering any associated cost.</p>
<b>Charging infrastructure</b>	<p>Customer is solely responsible for reliability, performance, or interoperability of the chargers (including software, hardware, platform, or system integrations), for uploading data to the Cloud Service and other related infrastructure (e.g., power distribution systems, distributed energy systems, EVs).</p>
<b>Internet connection</b>	<p>Customer must provide a functional internet connection. The bandwidth of the internet connection will determine Customer's experience of the Cloud Service and its performance.</p>
<b>Web browser</b>	<p>To use the Cloud Service, a HTML5 capable internet browser is required (e.g. Google Chrome or Microsoft Edge). The recommended screen resolution is 1280x720 or higher. Viewing on mobile internet devices is not supported.</p>
<b>Notification service</b>	<p>To receive notifications from the Cloud Service user must provide a company email to which the user has access to. Use of personal email addresses is not permitted.</p>
<b>Software for viewing reports offline</b>	<p>To view the Reports provided by the Cloud Service offline a software to read .csv files (i.e., Microsoft Excel or similar) or .pdf files (i.e., Acrobat Reader or similar) is required.</p>
<b>Supported languages</b>	<p>The UI language used in the Cloud Service can be configured. The supported languages are: English, French, German, Italian, Portuguese, and Spanish.</p>
<b>Uploading content</b>	<p>Data can be uploaded by Customer to the Cloud Service via</p> <ol style="list-style-type: none"> <li>Charger data via the OCPPv1.6-JSON connection.</li> <li>EV information (EV UID, State of Charge) via the charger OCPPv1.6-JSON connection.</li> <li>Energy System Data and Depot Operations Data via manual input via the Smart Charging Configuration panel.</li> </ol> <p>Customer is solely responsible for any data uploaded to the Cloud Service. The Cloud Service is not intended for the processing of personal data on behalf of Customer as a data controller and as a data processor. Therefore, Customer must not upload any personal data.</p>
<b>Deletion concept</b>	<p>Customer's content will be deleted after an agreed retention period to optimize digital storage, based on data volume and ingestion rates. The types of data and their respective deletion periods are as follows:</p> <ol style="list-style-type: none"> <li>Charging records data is held for the duration of the subscription.</li> <li>Charger and Connector data (except time series) is held for the duration of the subscription.</li> <li>EV data (except time series) is held for the duration of the subscription.</li> <li>Smart Charging Report data is deleted after 12 months.</li> <li>Charger time series data is deleted after 14 days.</li> <li>EV time series data is deleted after 30 days.</li> <li>Charger Notification data is deleted after 6 months.</li> <li>System Notification data is deleted after 1 month.</li> </ol>

## DEPOT BASIC

<b>Access to service</b>	Each Authorized User will receive a username and password to access the user interface (UI) of the Cloud Service via <a href="https://depot.emobility.io">https://depot.emobility.io</a> and <a href="https://depotfinty.emobility.io">https://depotfinty.emobility.io</a> . The specific URL varies by region – please refer to the onboarding email for details.
<b>General</b>	<p>Customer is only authorized to use the Cloud Service in accordance with the features included in their active subscription package.</p> <p>For <b>Depot Basic</b> package, available functions include:</p> <ol style="list-style-type: none"> <li>Overview</li> <li>Charging transactions</li> <li>Remote charger reset</li> <li>Remote control of charging transactions</li> <li>Toggle charger or connector availability</li> <li>Notifications</li> <li>Reports</li> <li>EV management</li> <li>RFID-Based authorization</li> <li>Parking visualization</li> <li>Supported APIs for charging transaction management</li> </ol> <p>The dashboards and prepared reports provide a one-time evaluation. The data presented in the analysis are valid only at the time of evaluation. Please note that the assessment criteria and any forecasts included in this analysis are subject to change at any time and depend on the input and/or configuration provided by the user. The quality and performance of the Cloud Service are determined by the users' data input.</p>
<b>Overview</b>	<p>The Overview displays the overall status of (a) all chargers and (b) all connectors managed by the Cloud Service. Individual chargers are visualized either as a plan view of the depot or in a stylized grid or list. Each charger and its charging status (available, unavailable, faulted) are shown, along with their connectors and corresponding connector statuses (EV ID connected, charging status – available, unavailable, faulted, vehicle suspended, station suspended, vehicle plugged in, charging, finished, reserved). The parking location of each vehicle can be mapped to the connector at each charger for improved clarity.</p> <p>AC chargers can display a reduced set of meter values and data.</p>
<b>Charging transactions</b>	<p>The Cloud Service reports selected individual charging transactions (events), including:</p> <ol style="list-style-type: none"> <li>An aggregated view showing the distribution of transaction outcomes within the depot over a defined time period (e.g., percentage of successfully completed transactions without errors per day, week, or month).</li> <li>A graph illustrating charger connectivity and availability across various time intervals (day, week, month, year).</li> <li>A detailed list of transactions within the selected period, including end status, start/stop times, and energy delivered. For DC chargers, additional data such as vehicle ID and battery state of charge are provided.</li> </ol> <p>Transactions can be exported as a CSV file for a specified time range.</p>
<b>Remote charger reset</b>	<p>Chargers can be reset via remote command. The following commands are available:</p> <ol style="list-style-type: none"> <li>Soft Reset resets the charger software.</li> <li>Hard Reset restarts the charger.</li> </ol>
<b>Remote control of charging Transactions</b>	<p>From the Connector View the user can remotely:</p> <ol style="list-style-type: none"> <li>unlock a connector,</li> <li>stop an ongoing charging transaction, and</li> <li>restart a previously authorized charging transaction.</li> </ol>
<b>Toggle charger or connector availability</b>	<p>From the Charger View toggle charger availability on or off. Similarly, connector availability can be managed from the Connector View.</p>
<b>Notifications</b>	<p>The Cloud Service provides an event-driven notification system configurable by the user. Distribution groups (such as service personnel, charging personnel, or drivers) can be set up to receive event notifications (e.g., errors, parameter thresholds exceeded, group-specific visualizations) via email.</p>
<b>Charger Notifications</b>	<p>Faulted chargers will send a notification to the Cloud Service which will display this information in three areas:</p> <ol style="list-style-type: none"> <li>A red pop-up notification window will be shown within the Cloud Service.</li> <li>A desktop notification window will be shown in the desktop if the User permits.</li> <li>Errors and error details will be shown in the Charger Notifications view.</li> </ol> <p>Charger errors can be exported to csv for a time period.</p>

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<b>Reports</b>	<p>The Cloud Service provides the following reports:</p> <ol style="list-style-type: none"><li>Performance Summary Report covering key performance indicators such as charger uptime, connector availability, and the percentage of successful charging transactions.</li><li>Peak Power Usage Report detailing peak power consumption over a selected time period.</li></ol>
<b>EV management</b>	<p>EV details (EV UID, name, battery, and cell balancing parameters) can be configured by the user via the EV Management View.</p>
<b>Authorization via RFID or vehicle MAC ID</b>	<p>Enable charger authorization via RFID and MAC ID for chargers managed by the Cloud Service. Charger access can be controlled using allow or restrict lists for RFID or MAC IDs. Linking or unlinking RFID IDs or MACIDs to vehicles can be performed manually or in bulk through CSV file.</p>
<b>Parking visualization</b>	<p>A 2D parking visualization can be configured to display the relative layout of parking spaces, vehicles connected, and their charging transaction statuses, as well as the wiring between chargers and connectors.</p>
<b>Supported APIs for charging transaction management</b>	<p>The Cloud Service allows direct integration with external systems via API. The APIs available in package Depot Basic are:</p> <ol style="list-style-type: none"><li>Charger Status API provides the availability status for chargers and connectors as well as the charger connectivity status.</li><li>Transactions API provides charging transaction details for a selected time period.</li><li>Session Reports API provides transaction report information for legacy Siemens HPC chargers.</li><li>Times Series API provides time series data records of a charger.</li></ol> <p>Detailed API documentation is available via the URL <a href="https://developer.emobility.io">https://developer.emobility.io</a>.</p>

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## DEPOT ADVANCED

<b>Prerequisites</b>	<p>Vehicles must support IEC 61851 and be capable of transmitting State of Charge (SoC) and Vehicle ID to the charger upon plug-in.</p> <p>To support advanced functionality such as Preconditioning, chargers and vehicles must also be compliant with ISO 15118 and implement VDV 261.</p> <p>To ensure data integrity, transparency software is required to validate the accuracy of signed meter data downloaded from the Cloud Service.</p>
<b>General</b>	<p>The package Depot Advanced includes all functions provided by the package Depot Basic.</p> <p>Customer is authorized to use the Cloud Service only in accordance with the package for which a valid subscription is held. For <b>Depot Advanced</b> package, available functions include:</p> <ol style="list-style-type: none"> <li>Smart Charging</li> <li>Smart Charge Reports</li> <li>Authorization of vehicles and drivers</li> <li>Driver group management</li> <li>Automatic restart of transactions upon power loss</li> <li>Energy consumption reports</li> <li>Driver app (Sifinity Depot Drive)</li> <li>Preconditioning (VDV 261)</li> <li>Data exchange (VDV 463)</li> <li>Supported APIs for RFID management and remote start/stop of charging</li> </ol>
<b>Smart charging</b>	<p>Smart Charging enables remote limitation of charger power. The following functions are supported:</p> <ol style="list-style-type: none"> <li>Static Load Management via Peak Shaving</li> <li>Static Load Management via Peak Shifting</li> </ol> <p>Chargers can be organized into groups, each assigned a maximum group power and a control algorithm – FIFO (First-In First-Out), FILO (First-In Last-Out), SPLIT, or Round-Robin. Chargers within a group are managed according to the selected strategy to ensure power limits are maintained.</p> <p>Charger characteristics (e.g. maximum power, number of connectors, efficiency, power factor) are configured during onboarding. EV details (EV UID, name, battery capacity, and cell balancing parameters) are configured via the EV Management View.</p> <p>Charger group settings – including group composition, maximum power, and control algorithm – are defined in the Charger Groups View.</p>
<b>Smart charge reports</b>	<p>This dashboard displays completed, ongoing, and faulted charging transactions. It also highlights EVs that are closest to reaching full charge. Additionally, statistics on peak power consumption and energy delivered by charger groups are available for time periods of up to 12 months. Reports can be exported for defined time periods in different image and data format.</p>
<b>Authorization via Sifinity Depot Drive</b>	<p>Besides RFID and vehicle MAC ID enable charger authorization via smartphone app <i>Sifinity Depot Drive</i> for chargers managed by the Cloud Service. Charger access can be controlled using allow or restrict lists.</p>
<b>Driver group management</b>	<p>A driver group can include RFIDs, vehicles, and drivers. These elements can be assigned to or removed from the driver group as needed. Access to specific connectors for each driver group can be defined. Additionally, a price per kWh consumed can be set for the group.</p>
<b>Automatic restart of transactions upon power loss</b>	<p>The Cloud Service can be configured to automatically restart a previously authorized charging transaction when it stops prematurely due to power loss and the charger comes back online.</p>
<b>Energy consumption reports</b>	<p>For Vehicles, Drivers, and Groups (of vehicles and drivers) the User can:</p> <ol style="list-style-type: none"> <li>Monitor energy consumption.</li> <li>View charging reports.</li> <li>Export energy consumption reports to CSV file.</li> </ol> <p>For ERK compliant chargers you can download ERK (“Eichrechtskonform”) compliant charging reports.</p>
<b>Driver app (Sifinity Depot Drive)</b>	<p>Users can initiate, monitor, and stop a charging transaction on a charger under the control of the Cloud Service from their smartphone with the Sifinity Depot Drive app. It is available for download for iOS and Android in the respective App Stores under separate terms.</p>
<b>Preconditioning according to VDV261</b>	<p>Preconditioning allows vehicles under the control of the Cloud Service to be heated or cooled prior to departure, based on vehicle requirements and ambient temperature.</p>

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Vehicle onboarding parameters such as URL and credentials can be configured in the EV Management View. Once communication is established between the vehicle and the backend in accordance with VDV 261, preconditioning parameters transmitted by the EV can be visualized per vehicle in the EV Management View.

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**Data exchange according to VDV463**

Data exchange via VDV463 enables integration of the Cloud Service with upstream systems, such as depot or fleet management platforms. Charging requests, charging information, and preconditioning control can be communicated among systems.

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**Supported APIs**

The Cloud Service allows direct integration with external systems via API. The APIs available in package Depot Advanced include all APIs provided by Depot Basic as well as:

1. RFID Management API provides update and management of RFID cards for authorization towards a charger.
2. Remote Commands API provides remote control of charging activity and charger configuration.
3. VDV-261 API allows the EV to communicate and send VDV-261 parameters to the Cloud Service.
4. Integration to depot management system via VDV463 API.

Detailed API documentation is available via the URL <https://developer.emobility.io>.

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## DEPOT PREMIUM

<b>Prerequisites</b>	Import of an EV Schedule to the Cloud Service is required either via a csv file or via direct integration via API call. Import of route schedules via .csv file required to initiate dispatch.
<b>General</b>	<p>The package Depot Premium includes all functions of packages Depot Basic and Depot Advanced.</p> <p>Customer is only authorized to use the Cloud Service in accordance with the package to which a valid subscription is held. For <b>Depot Premium</b> package, available functions include:</p> <ol style="list-style-type: none"> <li>a. Adaptive Charging</li> <li>b. (Day Ahead) Optimal Charging</li> <li>c. Daily Operations</li> <li>d. Import Blocks</li> <li>e. Initiate Automatic Dispatch</li> <li>f. View EV Schedule</li> <li>g. Monitor vehicle charge status</li> <li>h. Disruption management</li> <li>i. Supported APIs including Geotab integration</li> </ol>
<b>Adaptive charging</b>	<p>Adaptive Charging enables the user to prioritize charging according to vehicle schedule. The vehicles that need to leave the depot earliest are prioritized over other vehicles.</p> <p>During the configuration of a charging group it is possible to select the charging strategy as Adaptive. It is necessary to upload a vehicle schedule via csv import to prioritize charging.</p> <p>If preconditioning is enabled, then the departure time of the vehicle is communicated to individual vehicles according to VDV261. The energy requirements of the vehicle are planned as part of the charging strategy.</p>
<b>(Day-ahead) optimal charging</b>	<p>The Day Ahead Optimal Charging enables the user to optimize the charging schedule for EVs within a single depot:</p> <ol style="list-style-type: none"> <li>1. Optimal Charging Configuration <ol style="list-style-type: none"> <li>a. Charging Station configuration, vehicle configuration, depot specific parameters, optimization goal are entered via the UI of the Cloud Service.</li> <li>b. Charging Stations can be placed into Optimal Charging Control Groups via the UI.</li> <li>c. Power constraints can be set for Optimal Charging groups via the UI.</li> <li>d. The Vehicle Schedule information can be imported by csv file.</li> <li>e. The energy price information can be imported by csv file.</li> </ol> </li> <li>2. Charging Optimization. The optimized charging schedules for each Charging Station under control of the Cloud Service are calculated to deliver one or more of the following objectives: <ol style="list-style-type: none"> <li>a. Overall power minimization. The charging schedules for each Charging Station in the control group are optimized so that the maximum overall power for the group is minimized.</li> <li>b. Overall electricity cost optimization. The charging schedules for each Charging Station in the control group are optimized so that for the given electricity price schedule the overall electricity cost for the group is minimized.</li> </ol> </li> </ol>
<b>Daily operations</b>	<p>The Daily Operations service monitors the status of each vehicle when they are plugged in and then compares the actual status compared with that expected from the Vehicle Schedule. If deviations are found, then the user is notified via the System Notification View within the UI. The following use cases are supported:</p> <ol style="list-style-type: none"> <li>a. Late EVs. The actual plug-in time of the vehicle is compared with the planned plug-in time as defined in the Vehicle Schedule. If the actual plug-in time is later than the planned time, then a notification is displayed within the System Notification View.</li> <li>b. Excessive Energy Usage. At plug-in the actual SoC of the vehicle is compared to the planned SoC as defined in the Vehicle Schedule. If the actual SoC is less than the planned SoC then a notification is displayed in the System Notification View.</li> </ol>
<b>Import blocks</b>	Import your block (depot to depot trip) schedules via .csv to the Cloud Service. A .csv template to input your schedule is provided.
<b>Initiate automatic dispatch</b>	<p>Trigger automatic dispatch at a given time every day.</p> <p>Initiate dispatch for given blocks manually.</p> <p>Configure vehicle capacity to match required block capacity.</p>
<b>View EV schedule</b>	<p>View EV schedule generated by the Cloud Service.</p> <p>Filter for all vehicles, only vehicles in depot or vehicles on route.</p> <p>View odometer reading for EVs.</p> <p>View expected EV SoC of vehicle upon arrival and departure from depot.</p> <p>View charging duration for each vehicle and block.</p>

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	View required block capacity easily.
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<b>Monitor vehicle charge</b>	Monitor vehicle SoC while charging. Monitor vehicle SoC on route via Telematics integration.
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<b>Disruption management</b>	Maintain vehicle maintenance schedule. Take a vehicle out of service and set it as unavailable. Update vehicle availability and redispach on-the-fly. Manually change dispatch of vehicles.
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<b>Supported APIs</b>	<p>The Cloud Service allows direct integration with external systems via API. The APIs available in package Depot Premium include all APIs provided by Depot Basic and Depot Advanced as well as:</p> <ol style="list-style-type: none"> <li>Geotab integration API to integrate with Geotab service to acquire odometer and SoC data from vehicles on route.</li> <li>Charger Control API provides the list of power groups from external systems, the update of the external power limit of a charger group from external systems, and prioritization and allocation of power sharing across different loads dynamically.</li> <li>Virtual Power Plant API provides retrieval and update of the energy price information used to optimize services and power consumption.</li> </ol> <p>Detailed API documentation is available via the URL <a href="https://developer.emobility.io">https://developer.emobility.io</a>.</p>
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## Export Control Regulations

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