

Truck parking information service, SID

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1. The SID data offers

Source: <https://company.toll-collect.de/de/produkte-loesungen/daten-geoinformationssysteme/lkw-stellplatzinformationsdienst/datenangebot/>

The Stellplatz-Informationsdienst (truck parking information service, SID) provides two data offers: static data with master information about rest areas such as their name and location, and dynamic data on the current occupancy of those rest areas. This section explains how the data offers are structured, the format in which they are provided, and the interface through which they can be retrieved.

Data format and interface

The SID publishes its data via the [Mobilithek](#), a platform of the Federal Ministry of Transport (BMV) for exchanging digital information. The SID uses DATEX II as its data format. DATEX II is a European standard for the structured exchange of traffic and mobility data. Many data services on Mobilithek are based on DATEX II version 2.3.

For compatibility with existing data services on Mobilithek, the SID also uses DATEX II version 2.

DATEX II as a standard is designed for different use cases in the field of Intelligent Transport Systems (ITS). The SID, however, requires more specific data structures. For this purpose, a special schema was defined: the Intelligent Truck Parking schema, abbreviated as the ITP schema.

Access to SID data is provided through a SOAP/HTTPS interface of Mobilithek. Details of this interface are available [here](#):

[Technical interface description \(PDF\)](#)

Further information

[More about DATEX II](#)

[More about ITS](#)

[More about the ITP schema](#)

SID data types

The SID publishes information on rest areas along federal motorways and on other facilities, such as privately operated truck stops.

The information on rest areas is divided into two data offers. The “Statische Daten” data offer (static data) contains the master data of the rest areas. The “Dynamische Daten” data offer (dynamic data) describes the current occupancy status of those rest areas.

Retrieving the data requires on Mobilithek and for the SID, see section Access to SID data below.

SID data is published as XML files in DATEX II format. The static data is based on the profile “ITP Deutschland - Parking Table Publication”; the dynamic data is based on the profile “ITP Deutschland - Parking Status Publication”. The exact structures of these profiles are described in the XSD schema files, which can be downloaded together with sample messages and detailed documentation of the DATEX II profile from Mobilithek.

[DATEX II profile ITP \(zip, German\)](#)

The SID does not use all attributes that are possible in the ITP profile. In the explanations of the static and dynamic data below, this page also provides sample files showing the SID-specific use of the ITP profile.

Static data

The “Statische Daten” data offer covers basic attributes of the rest areas, such as parking site ID, name, address, geoinformation, capacity, and the type of operation. The data is updated only when the master data of the rest areas changes.

The truck parking capacity of a rest area in the SID consists of both regular parking spaces that comply with the German Road Traffic Regulations (StVO) and tolerated parking spaces that can be used without obstructing or endangering traffic at a rest area. The regular capacity is described in the attribute “parkingNumberOfSpaces”; the total capacity, including tolerated areas, is described in the attribute “fullIncreasing/fullDecreasing”.

Detailed descriptions of the attributes and timestamps used, together with a sample message for the static data, are available below.

[Attributes and timestamps used - static data \(PDF, German\)](#)

[Sample message - static data \(XML\)](#)

[Subscribe to static data](#)

Dynamic data

The “Dynamische Daten” data offer references the rest areas described in the static data offer and represents their occupancy. The dynamic data is updated whenever the occupancy status changes, but at most once per minute.

Occupancy is shown in three forms:

- Occupancy count (*parkingNumberOfVehicles*): number of trucks at a rest area;
- Percentage occupancy (*parkingOccupancy*): occupancy count relative to the total parking-space capacity of a rest area, rounded up to five-percentage-point increments;

- Three-level model (*parkingSiteStatus*): parking spaces available (“spacesAvailable”), almost full (“almostFull”), or full (“full”). For both percentage occupancy and the three-level model, regular parking spaces that comply with the German Road Traffic Regulations (StVO) and tolerated parking spaces are taken into account.

Detailed descriptions of the attributes and timestamps used, together with a sample message for the dynamic data, are available below.

[Attributes and timestamps used - dynamic data \(PDF, German\)](#)

[Sample message - dynamic data \(XML\)](#)

[Subscribe to dynamic data](#)

Special features of data provision

Certain special cases are taken into account when preparing SID data. These include closed rest areas, rest areas with Autobahn GmbH sensor systems, rest areas on the German border, and rest areas with temporary or special usage restrictions.

Minimum cohort size

To avoid publishing data about individual vehicles, a minimum cohort size is applied to the number of vehicles at a rest area.

If between one and three present vehicles are known at a rest area, the SID publishes the number of present vehicles as three in the field “parkingNumberOfVehicles”. In this case, the percentage statement (“parkingOccupancy”) and the three-level occupancy indicator (“parkingSiteStatus”) are also calculated on the basis of three present vehicles.

If the number of known vehicles is zero or greater than or equal to three, the SID publishes the number directly without applying a minimum cohort size.

Closed rest areas

Information on public rest areas on federal motorways is taken from the “Bundesinformationssystem Straße (BISStra): Erfassungstool für Rastanlagen und Querungshilfen” of BAST. This data source also contains facilities that are not accessible. The SID publishes information only on rest areas that are open according to that source. Temporary closures are not currently represented in the SID; a corresponding enhancement is planned.

Rest areas with Autobahn GmbH sensor systems

Some rest areas are equipped with Autobahn GmbH sensor systems for area-wide detection of parking areas. For these facilities, the SID uses the corresponding occupancy data from Autobahn GmbH. This is identified in the dynamic data by a note in the attribute “parkingStatusDescription” (“Parking status of this record is republished”).

Rest areas on the German border

Some rest areas are located directly on the German border. Because the SID does not capture vehicle traces outside the German road network, no robust occupancy status can be derived for these facilities. The SID therefore does not publish occupancy figures for border rest areas. In the dynamic data, current occupancy is stated as unknown (“parkingSiteStatus = unknown”).

Other special cases

The SID also takes other special cases into account when preparing the data. Examples include rest areas where trucks are not allowed to park. In the dynamic data, current occupancy is stated as unknown (“parkingSiteStatus = unknown”), and the rest areas are identified by a note in the attribute “parkingStatusDescription” (“No truck parking spaces available”).

Temporary usage restrictions may also affect the capacity that is actually available, for example if rest areas are temporarily used in a different way or if individual parking spaces are available only at certain times. Because such restrictions are not always represented in the underlying master data, the SID cannot take them into account in every case.

2. Access to SID data

Source: <https://company.toll-collect.de/de/produkte-loesungen/daten-geoinformationssysteme/lkw-stellplatzinformationsdienst/datennutzung/>

Toll Collect provides the data of the Stellplatz-Informationssystem (SID) free of charge via Mobilithek. Mobilithek is Germany's central mobility-data platform, initiated by the Federal Ministry for Digital and Transport (BMDV). Three registrations are required to use SID data: registration in Mobilithek, registration with or membership in an organization, and registration for the SID. The following instructions show what needs to be done.

Step by step to SID data

1. Create a user account in Mobilithek

First register as a user in Mobilithek. The user account is required so that you can see and use the SID data offers on the platform.

Registration takes place in two steps:

- Enter and confirm your email address. Enter your email address on the Mobilithek registration page. You will then receive an email with a verification link. Follow this link to continue registration.

[Mobilithek registration page](#)

- Complete your user profile. After verification, complete your user profile by entering your name, setting a password, selecting your personal language preference, and accepting the data-protection provisions and terms and conditions.

After these steps are complete, your user account will be activated. You can then log in to Mobilithek with your email address and password.

[Mobilithek FAQ](#)

2. Join an organization or register an organization

An organizational affiliation is required to receive SID data. If your organization is already registered in Mobilithek, join that organization. You can then proceed to the next step.

If your organization is not yet registered, create a new organization. Select the menu item "Organisation registrieren" and enter the organization data. In the "Datenanbieter" section, also specify whether your organization wants to provide data itself. Complete the registration using the "Organisation registrieren" button. Your details will then be checked.

Once your organization has been activated, you will receive a notification by email.

Important: If you register an organization, you are automatically entered as the administrator of that organization. Each user account can belong to only one organization. With the same user account, you cannot subsequently join another organization.

As long as the organization has not yet been activated, you can withdraw the registration request. To do this, select “Meine Organisation” and then “Organisationsregistrierung abbrechen”. If you want to undo the registration of an organization that has already been activated, contact user support.

[Mobilithek user support](#)

3. Request a machine account

A machine account is required to access SID data. This machine account is the basis for retrieving SID data via the SOAP interface. In Mobilithek, open the “Mein Profil” area and select “Maschinenkonto hinzufügen”. You can then enter the machine account.

A certificate is required to authenticate the machine account. There are two options:

- Upload your own certificate. If a certificate already exists, you can upload it for authentication.
- Generate a certificate in Mobilithek. Alternatively, a certificate can be created directly in Mobilithek. A mobile phone number is required for this.

Once the machine account has been set up, the basis for data retrieval is in place.

4. Select the “Bestellmanagement” role

To subscribe to the SID data offers, your Mobilithek user profile must be assigned the “Bestell-Manager” role. In the user profile, under the user’s roles, select the option “Bestellmanagement”.

5. Subscribe to SID data offers

Then search in Mobilithek for the data offer of the Stellplatz-Informationssdienst. Enter “Stellplatz-Informationssdienst” as the search term.

Two SID data offers appear in the results list: static data on rest areas and dynamic data on the current occupancy of those rest areas.

[Stellplatz-Informationssdienst - statische Daten](#)

[Stellplatz-Informationssdienst - dynamische Daten](#)

Both offers are relevant for full receipt of SID data and must be subscribed to separately. Open the tiles for the two SID data offers one after the other. On each offer page, select “Abonnieren”. The checkbox labelled “Relevant gemäß MDV/PBefG” does not need to be selected to receive SID data.

After clicking “Abonnieren”, your subscription is activated immediately. You can then download the data using your machine account and the offered URLs via SOAP.

Further information is available in the Mobilithek FAQ in the sections “How can I subscribe to a data offer?” and “My subscription is activated. How do I get the data?”.

[Mobilithek FAQ](#)

You can download the metadata of the offers from the respective offer pages. Under “Offer Details”, the available formats are listed in the “General” tab. In the “Dateien oder Inhalte” tab, the corresponding XSD file with the ITP profile is available.

The terms and conditions apply to use of the SID data.

[Terms and conditions \(PDF, German\)](#)