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Vehicle data information products

Overview and description

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1 Introduction

This document gives an overview of the vehicle data information products made available by the Federal Roads Office FEDRO from its Vehicle Admission Information System (VAIS; subsystem vehicles).

Chapter 2 outlines the range of standard data sets and reports available (open government data or contract-based). These information products are then described in detail in Chapter 3. Chapter 4 provides information about the information products which may be useful for their interpretation.

2 Overview of the range of information products

2.1 Information products available free of charge (open government data, OGD)

The following table lists the information products available free of charge, which can be accessed at this link: https://opendata.astra.admin.ch/ivzod/.

Name (linked to detailed description)	Format	Brief description	Available periodicity	Link to data set
neuzu_gebr_ogd	Raw data set	New registrations in the current year	daily	Data set
NEUZU_W	Report incl. raw data set	New registrations in the current year incl. diagrams and tables on the data	weekly	Data set
NEUZU_IMPORT-KANAL	Raw data set	Number of new registrations by import channel aggregated by make and type	quarterly	Data set
best_ogd	Raw data set	Stock of all vehicles in circulation	monthly	Data set
STNR	Raw data set	List of all master numbers of new registrations in the current year with CO_2-relevant data	daily	Data set
eDatenblatt	Raw data set	CoC data on vehicles registered via eCoC	monthly	Data set
Type approval data	json/Raw data set	3rd generation type approvals as individual data (json format) and as raw data sets	monthly	Directory
AHOI	Raw data set	Change of owner, change of location, initial or re-registration, change of driving licence class (motorcycles)	monthly	Data set
Fahrzeugbestand nach Marke und Typ	Report	Title in English: Vehicle stock by make and type Aggregated overview tables on stocks per vehicle type and make incl. vehicles out of circulation	quarterly	Data set

2.2 Contract-based information products

A one-off framework agreement must be entered into before purchasing fee-based data sets (cf. Vehicle data on FEDRO website). The following table gives an overview of the range of contract-based information products. Test data sets are available at the following link: https://opendata.astra.admin.ch/ivzod/1000-Fahrzeuge_IVZ/1400-Vertragspflichtige_Datensaetze/.

Name (link to detailed description)	Format	Brief description	Available periodicity	Link to test data set
neuzu_gebr_cd	Raw data set	New registrations in the current year incl. geographical information and details of the owner	monthly	Test data set
best_cd	Raw data set	Stock of all vehicles in circulation incl. geographical information (zip code) and information on the owner	monthly	Test data set
ks_typ_cd	Raw data set	List of all registration plates with information on the type of associated vehicles	monthly	Test data set
stnr_typ_cd	Raw data set	List of all master numbers with information on the type of associated vehicles	monthly	Test data set
stat_best_cd*	Raw data set	Stock of all vehicles in circulation with a focus on the owner's details	monthly	Test data set
stat_neuzu_gebr_cd*	Raw data set	New registrations in the current year with a focus on the owner's details	monthly	Test data set
NEUZU_IMPORTEUR**	Raw data set	Vehicle list (VIN) with the new registrations in the current year that were self-imports	individual	Test data set
STNR_eDatenblatt	Raw data set	Master number with CoC data of all vehicles registered via eCoC	monthly	Test data set

* The data sets stat_best_cd and stat_neuzu_gebr_cd are only available to statistical offices.
** This data set contains only vehicles self-imported by a company or individual.

3 Detailed information on the individual information products

3.1 neuzu_gebr_ogd and neuzu_gebr_cd

Data description:

These data sets contain all vehicles with their initial registration in Switzerland or the Principality of Liechtenstein (“new registrations”) as well as all used vehicles imported from abroad that were first put into circulation in Switzerland or the Principality of Liechtenstein during the current year (”used vehicle imports”). Throughout the month of January, the data sets include the new registrations and used vehicle imports of the entire previous year (to account for late reports from the previous year). Otherwise, the new registrations and used vehicle imports (cumulative) are included since the beginning of the year. The data state refers to the time when the data set was created and not the date of vehicle registration. Unlike the freely available neuzu_gebr_ogd data set, the neuzu_gebr_cd data set also contains geographical information (e. g., zip code) on the vehicle's location or the vehicle owner's address, information about the owner as well as the special use of the vehicle (e. g., ambulance vehicles, regular-route vehicles).

The location and personal information refer to the current or last known vehicle owner at the time the data set was created.

For example: one-day registration to a car dealership on 05.02.2026, followed by a registration to the buyer on 06.05.2026 → The vehicle first appears in the data set neuzu_gebr_cd-20260301.txt with a legal entity listed as the owner and the entity’s zip code. The vehicle is out of circulation, but it is listed with the car dealership as the last known owner. Starting with the data set neuzu_gebr_cd-20260301.txt the vehicle is entered with a natural person as the owner and that person's zip code.

Intended use:

Creating general statistics

Format:

- Tab-delimited txt file
- UTF-8 encoded
- Each row in the data set represents the data of a specific vehicle.

Periodicity:

neuzu_gebr_ogd: daily
neuzu_gebr_cd: monthly

Availability:

neuzu_gebr_ogd: freely available (OGD)
neuzu_gebr_cd: contract-based (closed data)

Further information:

- Archive data sets with fewer attributes are available for the years 2011 to 2018.
- Changes effective from October 2026, see Section 4.2

3.2 NEUZU_W

Description:

This file gives an overview of new registrations in Switzerland and the Principality of Liechtenstein and is intended for anyone who does not wish to conduct their own raw data analysis.

The file contains predefined charts and tables and the corresponding raw data set. The data set contains the new registrations in the current year. Vehicles that are newly registered in Switzerland or the Principality of Liechtenstein but were first registered outside Switzerland or the Principality of Liechtenstein (“used vehicle imports”) are not included.

The registration figures for the last evaluated calendar week could still increase due to late registrations. This is particularly true at the start of a new month or quarter and for distribution channels with calendar-based sales targets.

For more reliable statistics, neuzu_gebr_ogd and neuzu_gebr_cd data sets should be used, which are generated daily and monthly, respectively.

Format:

- xlsb or xlsx file (xlsb with a smaller data volume)
- Raw data can be found in the 'Data' worksheet → One row per vehicle type (type approval No), canton and week.

Periodicity:

weekly

Availability:

freely available (OGD)

3.3 NEUZU_IMPORTKANAL

Description:

The data set contains new registrations (excluding “used car imports”) by import channel aggregated by make and type. It differentiates between official imports (imports by the official importer), parallel imports and direct imports. The import channel is derived by type approval number for vehicles that were registered by the old approval regime: Record „X“ or “empty”→ direct import; „.X….“ → parallel import; number without X (e.g. 1AB123) → official import. Vehicles, that were registered via the new approval system «IVI» are assigned to one of the three categories based on the type approval holder code. This data set is provided solely for general information purposes and involves uncertainties regarding the classification of the import channel.

In January, the data for the entire previous year are published. Otherwise, new registrations since the beginning of the year are included.

The data set is published quarterly, with a two-week delay following the end of each quarter. This ensures that late registrations from the road traffic authorities are also included.

Intended use:

- Creating general statistics
- Analysis and assessment of the market situation

Format:

- Tab-delimited txt file
- Windows-1252 encoded

Periodicity:

Quarterly, with a two-week delay following the end of quarter

Availability:

freely available (OGD)

3.4 stat_neuzu_gebr_cd

Data description:

These data sets contain all vehicles with their initial registration in Switzerland or the Principality of Liechtenstein (“new registrations”) as well as all used vehicles imported from abroad that were first put into circulation in Switzerland or the Principality of Liechtenstein during the current year (”used vehicle imports”). The data sets with figures as of January include new registrations of the entire previous year (to account for late reports from the previous year). Otherwise, the new registrations and used vehicle imports (cumulative) are included since the beginning of the year. The data state refers to the time when the data set was created and not the date of vehicle registration. Unlike the neuzu_gebr_cd dataset, the stat_neuzu_gebr_cd dataset contains additional geographic and demographic information and fewer technical vehicle specifications.

The location and personal information refer to the current or last known vehicle owner at the time the data set was created.

Intended use:

Creating public statistics

Format:

- Tab-delimited txt file

- UTF-8 encoded
- Each row in the data set represents the data of a specific vehicle.

Periodicity:

monthly

Availability:

- contract-based (closed data)
- available exclusively to statistical offices

3.5 best_ogd and best_cd

Data description:

The data set contains the vehicle stock, i.e. all vehicles in Switzerland and the Principality of Liechtenstein that are in circulation on the reference date. Unlike the freely available best_ogd data sets, the best_cd data sets also contain geographical information (e. g., zip code) on the vehicle's location or the vehicle owner's address, information about the owner and the special use of the vehicle (e. g., ambulance vehicles, regular-route vehicles).

Intended use:

Creating general statistics

Periodicity:

monthly

Availability:

best_ogd: freely available (OGD)
best_cd: contract-based (closed data)

Further information:

- Archive data sets with fewer attributes are available for the years 2011 to 2018.
- Changes effective from October 2026, see Section 4.2

3.6 stat_best_cd

Data description:

The data set contains the vehicle stock, i.e. all vehicles in Switzerland and the Principality of Liechtenstein that are in circulation on the reference date. Unlike the best_cd dataset, the stat_best_cd dataset contains additional geographic and demographic information and fewer technical vehicle specifications.

Intended use:

Creating public statistics

Format:

- Tab-delimited txt file
- UTF-8 encoded
- Each row in the data set represents the data of a specific vehicle.

Periodicity

monthly

Availability:

- contract-based (closed data)
- available exclusively to statistical offices

3.7 STNR

Data description:

The data set comprises a list of master numbers of new registrations in the current year with CO_2-relevant data. The data set includes the following vehicles:

- all vehicles that were first registered in Switzerland or the Principality of Liechtenstein in the current year,
- used vehicles from abroad that were registered in Switzerland or the Principality of Liechtenstein for the first time in the current year ("used vehicle imports") and
- vintage cars that were electronically registered for the first time in the current year after a long period out of circulation.

This data set is updated daily and contains data from the current year – defined here as:

- during January: new registrations since 01.01. of the previous year and
- from February to December: new registrations since 01.01. of the current year.

Intended use:

- Ongoing monitoring of CO_2 target achievement
- Ongoing monitoring of sales targets
- Quality control for CO_2-relevant data
- This data set is primarily aimed at vehicle importers. Data users must know the master numbers of the vehicles of relevance to them and can then conduct a data comparison (e.g. which vehicles were registered with which data).

Format:

- Tab-delimited txt file
- UTF-8 encoded
- Each row in the data set represents the data of a specific vehicle.

Periodicity:

daily

Availability:

freely available (OGD)

Further information:

Important: In the context of compliance with the CO_2-emission regulations for vehicles, only the calculations issued by the SFOE have legal effect for large importers. Any adjustments of the enforcement data shall be in accordance with the SFOE's specifications.

3.8 ks_typ_cd

Data description:

The data set includes the registration plate and technical vehicle type data.

This data set includes all vehicles that are in circulation in Switzerland or the Principality of Liechtenstein.

For classic cars, an unlimited number of vehicles per registration plate is possible; for all other vehicles, there is a maximum of two vehicles per registration plate. In order to protect (vintage) vehicle collections, a maximum of two vehicles is specified per registration plate.

Intended use:

- Type identification via registration plate
- Vehicle identification via registration plate

Format:

- Tab-delimited txt file
- UTF-8 encoded
- Each row in the data set represents the data of a specific vehicle.

Periodicity:

monthly

Availability:

contract-based (closed data)

Restriction on use:

This data set comes with a restriction on use that extends beyond the provisions of the framework agreement. By default, the restriction on use is regulated by the request for disclosure of data.

Information from ks_typ_cd data sets that has been obtained previously must be destroyed before a new ks_typ_cd data set is processed. The data may not be linked between the periods (e.g., to build up a vehicle history for a number plate, plate histories for a vehicle, vehicle inspection histories).

The data sets `ks_typ_cd` and `stnr_typ_cd` must be processed separately and must not be linked to one another.

3.9 stnr_typ_cd

Data description:

The data set includes all vehicles that are in circulation in Switzerland or the Principality of Liechtenstein or whose last deregistration was no more than five years ago. Therefore, type determination for vehicles out of circulation (without a registration plate) is also possible. All details refer to the reference date.

Intended use:

Type identification via master number

Format:

- Tab-delimited txt file
- UTF-8 encoded

- Each row in the data set represents the data of a specific vehicle.

Periodicity:

monthly

Availability:

contract-based (closed data)

Restriction on use:

This data set comes with a restriction on use that extends beyond the provisions of the framework agreement. By default, the restriction on use is regulated by the request for disclosure of data.

The data sets `stnr_typ_cd` and `ks_typ_cd` must be processed separately and must not be linked to one another.

3.10 NEUZU_IMPORTEUR

Data description:

The data set lists the vehicles (VIN) that were imported by a specific importer in the current year and registered for the first time in Switzerland or the Principality of Liechtenstein. The data sets as of January include the new registrations of the entire previous year. Otherwise, the new registrations are included since the beginning of the year.

The data set is only available to companies or persons who have imported vehicles themselves. Importers receive only the data on their own imports. The list does not include any vehicles of other importers. This is the only data set that contains the vehicle identification number (VIN).

The NEUZU_IMPORTEUR data set differs in many respects from the data basis used for compliance with the CO_2 emission regulations for vehicles. The main differences are as follows:

- Vehicle assignments between importers are not included in the data set.
- Vehicles with type approval X (individual vehicle approval by the road traffic office) are not included.
- I Emission pools of importers are not taken into account.
- The status of an importer is not taken into account (Art. 18–22 CO_2 Ordinance; SR 641.711).
- The unladen weight and CO_2 emissions stated in the data set may deviate from the values applicable for CO_2 compliance. Among other things, there is no adjustment of the CO_2 value in the following cases (list not exhaustive):
  - no deductions based on eco-innovations;
  - no CO_2 value from additionally submitted CoC;
  - no deductions for the biogas content of vehicles powered by gas;
  - no calculation of CO_2 emissions as per Annex 4 of the CO_2 Ordinance for vehicles that do not have a recognised CO_2 emissions certificate as per Art. 24 or 25 of the CO_2 Ordinance;
  - the data set does not take account of any tests for applicability of the CO_2 emission regulations.

Intended use:

- Determine the start of the warranty period based on the date of initial registration
- Ongoing monitoring of CO_2 target achievement
- Ongoing monitoring of sales targets

Format:

- On request as (human-readable) xlsx file or (machine-readable) tab-delimited txt file
- UTF-8 encoded
- Each row in the data set represents the data of a specific vehicle.

Periodicity:

individual

Availability:

- contract-based (closed data)
- available exclusively to companies or persons for their self-imported vehicles

Restriction on use:

This data set comes with a restriction on use that extends beyond the provisions of the framework agreement. By default, the restriction on use is regulated by the request for disclosure of data.

In deviation from No 4.3 of the framework agreement, the data recipient is permitted to pass on the NEUZU_IMPORTEUR standard data set to third parties (e.g., in the context of emissions pools) for the purpose of monitoring its own CO_2 targets. If the data recipient makes use of this possibility, they must inform all persons to whom they make the data available for the aforementioned purpose of the legal obligations and the obligations set out in the underlying framework agreement and to oblige them to comply with these.

Further information:

- **Important: In the context of compliance with the CO_2-emission regulations for vehicles, only the SFOE's calculations have legal effect for large importers. Any adjustments of the enforcement data shall be in accordance with the SFOE's specifications.**
- The data is transmitted exclusively by email to internal corporate email addresses. Several email addresses may be included in each mailing.
- The day and time of delivery can be freely selected (e.g. Fridays at 5pm, the first day of the month at 7am).

3.11 eDatenblatt, STNR_eDatenblatt

Data description:

The data set is based on the information set out in the template for the paper version of the Certificate of Conformity (CoC) in accordance with Commission Implementing Regulation (EU) 2020/683. Only vehicles registered via eCoC are included in the data set. They can be recognised by the note 'IVI' in field 24 (type approval) on the vehicle registration document. The data set also contains national data that do not appear in the EUin the same manner. On the 'eDatasheet' portal (https://edatenblatt.astra.admin.ch/edatenblatt/), the individual vehicle's CoC data can be retrieved by entering the master number. The data concerning a vehicle that was imported without initial registration (e.g. importer's stock vehicle) can only be viewed individually via the 'eDatasheet' portal.

The contract-based STNR_eDatenblatt data set also contains the unique master number. In all other respects, this data set is the same as the eDatenblatt data set, which is freely available.

Intended use:

- Vehicle type identification by means of the master number and the manufacturer's CoC data
- Creates a basis for grouping vehicle models, e.g. with the EU Type Approval number, type, variant and version

Format:

- csv file
- UTF-8 encoded
- Each row in the data set represents the data of a specific vehicle.

Periodicity:

monthly

Availability:

eDatenblatt: freely available (OGD)
STNR_eDatenblatt: contract-based

3.12 Type approval data

Data description:

The data records comprise type approval data from the TAS (Type Approval System) specialist application. The following data products are available:

- **json files** (directories 4100 and 4200 on the FEDRO data platform)
  - For each of the more than 200,000 third-generation type approvals, there is a bilingual json file (German and French, with English attribute names). Third-generation type approvals can be recognised by their six-digit number with exactly two or three letters. There are no json files for 1st and 2nd generation type approvals (1946 to approx. 1995).
  - As before, the json files are divided into the following vehicle groups based on their different data structures and are identified accordingly by their file names:
    - **M**otor **v**ehicle (MV) for two-track vehicles (example: MV_1SB601.json),
    - **M**otor**b**ike (MB) for single-track vehicles (example: MB_6CB208.json) and
    - **Tr**ailer (TR; example: TR_9SF301.json).
- **Data sets** (directory 4300 on the FEDRO data platform)
  - A data set is available for each of the three vehicle groups, listing all type approvals in that group (one type approval per line).
  - The data sets are available in the form of an xlsb Excel file and a csv file, each in German and French.
  - Due to the size of the xlsb version of the data set for the car group, the data set has been divided into passenger cars and other vehicles for easier manual use.
  - Emission data (exhaust, noise) is provided in a separate data set. This data set uses English attribute names and numerical content. It covers the automobile and motorcycle groups. Automobiles can have one to four variants of gear boxes with different emission data. Each gear box is listed in a separate row (i.e. one to four data rows). Motorcycles can have one to two variants of gear boxes (i.e. one or two data rows).
  - This results in the following range of data sets:

Vehicle group		xlsb	csv
Automobiles			TAS_Automobil.csv TAS-automobile.csv
	Passenger cars	TAS_Personenwagen.xlsb TAS_voiture_de_tourisme.xlsb	
	Other automobiles	TAS_restliche_Automobilgruppen.xlsb TAS_autres_automobiles.xlsb	
Motorcycles		TAS_Motorrad.xlsb TAS_moto.xlsb	TAS_Motorrad.csv TAS_moto.csv

Trailers	TAS_Anhaenger.xlsb TAS_remorque.xlsb	TAS_Anhaenger.csv TAS_remorque.csv
Emissions	TAS_Emission.xlsb	TAS_Emission.csv

- **General information on type approval data products**
  - In case of changes to type approvals, the previous data will be overwritten (json files and data records).
  - Information on the holder of a type approval (holder code) will not be disclosed.
  - FEDRO does not offer PDF printouts of data sheets (exception: historical type approvals of the 1st and 2nd generation, years 1946 to 1995, see previous directories 2310 and 2400 on the FEDRO data platform).

Intended use:

- Analysis of detailed type data
- Quality control in the type approval process
- Model identification for vehicle and parts trade

Format:

- json files (per type approval)
- csv and xlsb files, UTF-8 encoded (data sets)

Frequency:

monthly

Availability:

freely available (OGD)

3.13 AHOI

Data description:

The data set includes all vehicles in Switzerland and the Principality of Liechtenstein in anonymised form for which there has been at least one relevant change in the status of the owner or registration since the reference date one month before. The reference date is the night before the first day of each month.

The data set provides the basis for independent evaluations or observations of the used vehicle market.

The recorded changes of state include:

- Change of owner,
- Change of location (zip code of the owner's address changes due to a change of owner or relocation),
- Initial or re-registration and
- Change of driving licence class (graded motorcycle driving licence).

For interpretation of the data, see also Section 4.4

Intended use:

The data set is suitable for own analyses and assessments of the used vehicle market, e.g.:

- Ratio of owner changes to new registrations,

- Periods of time out of circulation before change of owner, by make, type or canton,
- Migration of vehicles between cantons.

Format:

- Tab-delimited txt file
- UTF-8 encoded
- Each row in the data set represents the data of a specific vehicle.
- Naming convention: AHOI-yyyymm-MMM.txt, e.g. AHOI-202201-JAN.txt for status changes during January 2022 (month abbreviations [German]: JAN, FEB, MRZ, APR, MAI, JUN, JUL, AUG, SEP, OKT, NOV, DEZ)

Periodicity:

monthly

Availability:

freely available (OGD)

3.14 Fahrzeugbestand nach Marke und Typ (engl. Vehicle stock by make and type)

Description:

The reports list in tabular form the current vehicle stock of Switzerland and the Principality of Liechtenstein by make and type. They are particularly useful for determining the frequency of certain makes or models (e.g. rare classic cars).

The following reports are available; the vehicle types included are shown in parentheses:

- Cars and vans (passenger cars, vans, light motor vehicles excluding those with body type “caravan”) and
- Motorcycles (includes motorcycles and small motorcycles),

Format:

PDF file

Periodicity:

irregular / on request

Availability:

freely available (OGD)

4 Useful information

4.1 Changes effective from July 2026

FEDRO’s data information products will no longer contain data on vehicles with military number plates. These are vehicles where the current or most recent canton of registration (German: Inverkehrsetzungs-Kanton) is M (for military) or where the number plate bears the canton code M.

The following data information products are exempt from this change: STNR, NEUZU_IMPORTEUR, eDatenblatt and STNR_eDatenblatt.

4.2 Changes effective from October 2026

As of October 2026, various standard data sets were replaced by new versions (see Table 1). The new data sets can be identified by their names in lowercase letters (in contrast to the uppercase letters used for the previous data sets). The suffix “cd” stands for Closed Data and refers to data sets subject to contractual agreements. The suffix “ogd” stands for Open Government Data and refers to freely available data sets.

Table 1: Mapping of the updated standard data sets through October 2026 to the versions starting in October 2026

Data set through October 2026	Data set starting in October 2026	Notes
New registrations		
NEUZU_R	neuzu_gebr_cd	
NEUZU	neuzu_gebr_ogd	
Used vehicle imports		
GEBR_R	neuzu_gebr_cd	Used vehicle imports for the current year are integrated into the new registration records (neuzu_gebr_cd and neuzu_gebr_ogd) starting in October 2026. They can be identified by the “Gebrauchtimport” attribute.
GEBR	neuzu_gebr_ogd	
Stock		
BEST_R	best_cd	The breakdown of the fleet into motorcycles, trailers, and other vehicles excluding passenger cars is omitted.
BEST_R_MOTO		
BEST_R_ANH		
BEST_R_ANDERE		
BEST	best_ogd	
BEST_MOTO		
BEST_ANH		
BEST_ANDERE		
Type identification		
KS_STNR_TYP	ks_typ_cd stnr_typ_cd	KS_STNR_TYP is discontinued and replaced by ks_typ_cd and stnr_typ_cd
KS_TYP	ks_typ_cd	
STNR_TYP	stnr_typ_cd	
Data for statistical offices		
STAT_NEUZU	stat_neuzu_gebr_cd	
STAT_BESTAND	stat_best_cd	

The most important changes to the affected standard data sets effective October 2026 are as follows:

- Frequency of data publication

  The new OGD dataset on new registrations, “neuzu_gebr_ogd,” will now be updated daily. The previous day’s dataset will be overwritten.

- New attribute “Gebrauchtimport”

  Starting in October 2026, the new registration data sets (neuzu_gebr_ogd and neuzu_gebr_cd) will also include used vehicles imported during the current year. Vehicles first registered abroad (outside CH and FL) can be identified by the new “Gebrauchtimport” attribute (values: “1” for used import, “0” for new registration).

- New attribute “CH-FL-Erstinverkehrsetzung Km-Stand”

This attribute refers to the mileage (in kilometres) at the time of initial registration in Switzerland or the Principality of Liechtenstein and can help identify brand-new vehicles that were initially registered abroad (e.g., with a one-day registration).

- New attribute “Künstlicher Schlüssel”

  In the new registration data sets (neuzu_gebr_ogd and neuzu_gebr_cd), all vehicles are assigned a unique, unchangeable reference number. As before, all location details (zip code, city, municipality) are based on the most recent information in the database, which may no longer correspond to the location of the initial registration. The location of the initial registration can be approximated by using the data record in which the reference number “Künstlicher Schlüssel” first appears.

- Random Sorting

  In the data sets without license plate numbers, the vehicles are sorted randomly.

- New attribute “Pluginhybrid”

  This attribute identifies plug-in hybrid vehicles (PHEV, plug-in hybrid electric vehicle). The information comes from the separate type approval system (TAS) or from the eData sheet (eCOC). The data is synchronized with the type approval registry approximately once a month. As a result, the classification is not always complete, and it can only partially account for vehicles with individual registration (“Type Certificate X”) (based on low CO_2 values).

4.3 Check digit in the master numbers

The nine-character master number contains a check digit. Typing errors when entering the master number can thus be detected in many cases. The check digit in position 9 of the master number is calculated according to the following rule:

Example using master number 318724969	Check digit calculation		
	Number	Weight	Product
1. position	3	3	3 * 3 = 9
2. position	1	2	1 * 2 = 2
3. position	8	7	8 * 7 = 56
4. position	7	6	7 * 6 = 42
5. position	2	5	2 * 5 = 10
6. position	4	4	4 * 4 = 16
7. position	9	3	9 * 3 = 27
8. position	6	2	6 * 2 = 12
9. position (check digit)	174:11 = 15 Remainder 9	=174 (sum of the products)	
	If remainder is 10: check digit = 0		

Therefore, in this example:
Valid master number: 318724969
Invalid master numbers (incorrect check digit): ~~318724960~~, ~~318724961~~, ~~318724962~~, ~~318724963~~, ~~318724964~~, ~~318724965~~, ~~318724966~~, ~~318724967~~, ~~318724968~~

4.4 AHOI case analysis

The following shows which changes in the status of the vehicle and owner (left side) lead to which information in the data set (right side). The details on the left are not included in the data set for data privacy reasons. There are a total of 35 possible constellations, some of which occur only rarely or are caused by data errors.

	Reference date January 1		→	Reference date February 1		→	Interpretation	→	Output data AHOI										
	Condition (old) of the vehicle	Holder*		Holder*	Condition (new) of the vehicle				Inverkehrsetzungs status_von	inverkehrsetzungs status_alt	Erstinverkehr_ setzung	Gebrauchtimport	Gebrauchtimport _aus_Staat	Wiederinver_ kehrsetzung	inverkehrsetzung _nach_Standzeit1	Halterwechsel	PLZ_Wechsel	PLZ_Wechsel _von_Kt	PLZ_Wechsel _nach_Kt
1	Out of circulation	Graf-ZH-PLZ 8000	→	Kunz-BS-PLZ 4001	In circulation	→	Re-registration with change of holder and postcode	→	AV	IV				ja	Number of days	ja	ja	ZH	BS
2	In circulation		→		In circulation	→	Change of holder and postcode	→	IV	IV				ja	< 31 days**	ja	ja	ZH	BS
3	Out of circulation		→		Out of circulation	→	Re-registration and deregistration within the month with change of holder and postcode	→	AV	AV				ja	Number of days	ja	ja	ZH	BS
4	In circulation		→		Out of circulation	→	Deregistration with change of holder and postcode	→	IV	AV				ja	< 31 days**	ja	ja	ZH	BS
5	Out of circulation	Graf-ZH-PLZ 8000	→	Schmidt-ZH-PLZ 8005	In circulation	→	Re-registration with change of holder and postcode, **without change of canton**	→	AV	IV				ja	Number of days	ja	ja	ZH	ZH
6	In circulation		→		In circulation	→	Change of holder and postcode, **without change of canton**	→	IV	IV				ja	< 31 days**	ja	ja	ZH	ZH
7	Out of circulation		→		Out of circulation	→	Re-registration under the month with change of holder and postcode, **without change of canton**	→	AV	AV				ja	Number of days	ja	ja	ZH	ZH
8	In circulation				Out of circulation		Deregistration with change of holder and postcode, **without change of canton**		IV	AV				ja	< 31 days**	ja	ja	ZH	ZH
9	Out of circulation	Graf-ZH-PLZ 8000	→	Fuchs-ZH-PLZ 8000	In circulation	→	Re-registration with change of holder, **without change of postcode** (e.g. change of holder within the same household)	→	AV	IV				ja	Number of days	ja			
10	In circulation		→		In circulation	→	Change of holder, **without change of postcode** (e.g. change of holder within the same household)	→	IV	IV				ja	< 31 days**	ja			
11	Out of circulation		→		Out of circulation	→	Re-registration and deregistration within the month with change of holder, **without change of postcode** (e.g. change of holder within the same household)	→	AV	AV				ja	Number of days	ja			
12	In circulation		→		Out of circulation	→	Deregistration with change of holder, **without change of postcode** (e.g. change of holder within the same household)	→	IV	AV				ja	< 31 days**	ja			
13	Out of circulation	Graf-ZH-PLZ 8000	→	Graf-ZH-PLZ 8000	In circulation	→	Re-registration without change of holder or postcode	→	AV	IV				ja	Number of days				
14	In circulation		→		In circulation	→	No changes	→	no data output (Exception: In the case of a change of driving licence class)										
15	Out of circulation		→		Out of circulation	→	No changes	→	no data output (Exception: In the case of a change of driving licence class)										
16	In circulation		→		Out of circulation	→	Ordinary deregistration	→	IV	AV									
17	Out of circulation	Graf-ZH-PLZ 8000	→	Graf-ZH-PLZ 8005	In circulation	→	Re-registration with change of address (change of postcode within a canton)	→	AV	IV				ja	Number of days		ja	ZH	ZH
18	In circulation		→		In circulation	→	Change of address (change of postcode within a canton)	→	IV	IV							ja	ZH	ZH
19	Out of circulation		→		Out of circulation	→	Re-registration and deregistration within the month, with change of address (change of postcode)	→	AV	AV							ja	ZH	ZH
20	In circulation		→		Out of circulation	→	Deregistration with change of address (change of postcode within a canton)	→	IV	AV							ja	ZH	ZH
21	Out of circulation	Graf-ZH-PLZ 8000	→	Graf-LU-PLZ 6003	In circulation	→	Re-registration with change of postcode, relocation to a new canton)	→	AV	IV				ja	Number of days		ja	ZH	LU
22	In circulation		→		In circulation	→	change of postcode, relocation to a new canton	→	IV	IV				ja	Number of days		ja	ZH	LU
23	Out of circulation		→		Out of circulation	→	Re-registration and deregistration within the month with change of postcode, relocation to a new canton	→	AV	AV				ja	Number of days		ja	ZH	LU
24	In circulation		→		Out of circulation	→	Deregistration with change of postcode, relocation to a new canton	→	IV	AV				ja	< 31 days**		ja	ZH	LU
25	Vehicle uknown	Holder unknown	→	Graf-ZH-PLZ 8000	In circulation	→	New registration	→	N/A	IV	ja								
26			→			→	Imported used vehicle (first registration in CH-FL of an imported used vehicle)	→	N/A	IV		ja	state						
27			→			→	>5 year out of circulation (the vehicle was not in the analysis database anymore)	→	N/A	IV				ja	>5 years***				
28			→			→	other cases = data errors	→	N/A	IV									
29	Vehicle unknown	Holder unknown	→	Graf-ZH-PLZ 8000	Out of circulation	→	New registration which is only in circulation for a short time within the month.	→	N/A	AV	ja								
30			→			→	Imported used vehicle which is only in circulation for a short time within the month.	→	N/A	AV		ja	state						
31			→			→	>5 years out of circulation, re-registration and in circulation for a short time within the month.	→	N/A	AV				ja	>5 years***				
32			→			→	Other cases = data errors	→	N/A	AV									
33	Vehicle unknown	Holder unknown	→	Holder unknown	Vehicle unknown	→	No changes	→	No data output										
34	In circulation	Graf-ZH-PLZ 8000	→	Holder unknown	Vehicle unknown	→	Data errors	→	No data output										
35	Out of circulation	Graf-ZH-PLZ 8000	→			→	Data errors	→	No data output										

* Current owner; in the case of vehicles out of circulation, the last known owner
** Period out of circulation cannot be determined, but it is shorter than one month
*** Period out of circulation cannot be determined, but it is longer than five years (a vehicle is removed from the evaluation database after five years out of circulation)