

Hauskoordinaten und Hausumringe des deutschen Liegenschaftskatasters Bezirksregierung Köln

Specification House Addresses Germany (Data Format)

Version 3.1 Status 01.07.2013

1. Specification data format

1. Status dataset (NBA)

House addresses are offered in ASCII-Format to customers.

The character set is ISO Latin-1 (ISO 8859/1). In addition to the house addresses data file the key data file will always provide as a standard distribution.

(character, 1-digit)

1.1 Structure of house addresses data file

1. Otatus dataset (NB/t)	(Character, 1 digit)
2. Nationwide clear identifier for every dataset ¹ (OI)	(string, alphanumeric, 16-digit)
3. Quality of house address (QUA)	(character, 1-digit)
4. Key federal state (LAN)	(string, only numeric, 2-digit)
5. Key administrative district (RBZ)	(string, only numeric, 1-digit)
6. Key county/city (KRS)	(string, only numeric, 2-digit)
7. Key commune (GMD)	(string, only numeric, 3-digit)
8. Key communal district (OTT)	(string, only numeric, 4-digit)
9. Administrative street code (SSS)	(string, alphanumeric, 5-digit)
10. House number (HNR)	(string, only numeric, variable length) ²
11. Addition to house number (ADZ)	(string, alphanumeric,variable length)
12. First coordinate value ETRS89/UTM	
Easting / UTM-coordinates (EEEEEEE,EEE)	(fix-point number, 8 digits before
	and 3 digits after decimal point)
13. Second coordinate value ETRS89/UTM	
Northing / UTM-coordinates (NNNNNNN,NNN)	(fix-point number, 7 digits before and 3
	digits after decimal point)
14. Official syntax street name (STN)	(string, variable length)

¹ The clear identifier number will not be used twice after deletion of the house address / after abridgment of a house object.

² The street number in the federal state Bayern sometimes can included alphanumeric numbers, for example "A10"



Hauskoordinaten und Hausumringe des deutschen Liegenschaftskatasters

Bezirksregierung Köln

15. Zip code (PLZ)

16. City (ONM)

17. Adjunct to the name of city (ZON)

18. Postal district (POT)

(string, only numeric, 5-digit) ³

(string, variable length)³

(string, variable length)³

(string, variable length)³

Notes about the data elements (DaE):

All data elements are separated by semicolon in a dataset. Per dataset there are 17 semicolons. These is the reason why a semicolon was not use in a string of a data element.

DaE 1:

Status of dataset after the yearly update differences between new (N), erased (L) und changed (A) datasets. Complete updates are signed general with "N".

DaE 2:

The number of identifier (OI) in data element 2 is nationwide clear. The "OI" comes and goes with the livetime interval of a house coordinate object.

DaE 3:

Data element 3 designates the quality of the house address and differences between:

- A = position is certainly inside the building area and represents an existing building;
- B = position is certainly inside the land parcel, on which the building is standing, but it is still unmapped;
- R = position is certainly inside the land parcel, but it is not sure if it represents an existing building (unmapped building) or if it is only a reserved house number.

DaE 4, 6, 7, 8, 9:

Data elements 4, 6, 7, 8 and 9 includes if necessary leading zeros (0).

• DaE 5, 6, 7, 8, 9:

If data elements 5, 6, 7, 8 or 9 are empty because of federal state-specific originalities (for example empty keys for communal districts) or other circumstances (for example if communes do not belong to a city, so in this case data element 7 is empty), this data elements have to be filled up with zeros.

This belongs to these special data elements which contain keys for administrative units in the dataset:

³ Not a component of the real estate cadastre in Germany. Source: Deutsche Post Direkt GmbH



Hauskoordinaten und Hausumringe des deutschen Liegenschaftskatasters Bezirksregierung Köln

Data element number	value for fill-up zeros
5. Key administrative district (KRS)	1 (0)
6. Key county/city (KRS)	2 (00)
7. Key commune (GMD)	3 (000)
8. Key communal district (OTT)	4 (0000)
9. Administrative street code (SSS)	5 (00000)

DaE 11:

If there is no existing addition to a street number in these cases the data elements are empty – this means that two semicolons follows one after another.

DaE 12 and 13:

The coordinate's values (data elements 12 and 13) are standardized distributed by using the reference system ETRS89/UTM <zn> counted in meter, divided by a comma with 3 digits after the decimal point. The notation to the UTM-coordinates result from the description about the reference system ETRS89/UTM in the respectively updated GeoInfoDok (currently chapter 7.1.2 nr. 3 version 6.0.1).

DaE 14:

The syntax of street names (STN)) is a string with special characters (for example "-") and with or without abbreviations (for example "Str." or "Straße"). Generally the spelling conforms to the notation of the uncoded street name in the real estate cadastre.

DaE 17 and 18:

In cases that the Deutsche Post AG has no adjunct to the name of city or the postal district the data elements are empty – this means that two semicolons follows one after another.

The following example shows the structure of a dataset:

Example (in common):

NBA;OI;QUA;LAN;RBZ;KRS;GMD;OTT;SSS;HNR;ADZ;EEEEEEEE,EEE;NNNNNNN,NNN;STN;PLZ;ONM;ZON;POT



Hauskoordinaten und Hausumringe des deutschen Liegenschaftskatasters

Bezirksregierung Köln

example (concrete):

N;DENW000002005478;A;05;3;15;000;0000;05705;43;a;32364664,130;5642408,726;

Wikingerstr.;51107;Köln;;Rath/Heumar

N;5DENWW000001885656;A;05;3;15;000;0000;00748;18;;32366661,335;5642916,518;

Donarstraße;51107;Köln;;Rath/Heumar

1.2 Structure of key data file

For the encryption of the key numbers in the data elements 4 to 7 – also called as communal indicator (LAN/RBZ/KRS/GMD) – and in the data element 8 (optional filled up communal districts (OTT)) there are key data files for every federal state in Germany. The datasets of the key data files are described by characters (for example L for "Land") and defined by the numeric and described meaning of the keys (for example L;05;Nordrhein-Westfalen).

The structure of the key data file is as followed whereas the sequence of the datasets is optional:

federal state dataset L;05;Nordrhein-Westfalen

administrative district datasets R;05;1;Düsseldorf

(per administrative district there is 1 dataset)

county datasets K;05;1;66;Viersen

(per county/city there is 1 dataset)

commune datasets G;05;1;66;016;Nettetal

(per commune there is 1 dataset)

communal district datasets O;05;1;11;000;0001;Düsseldorf-Teil

(per communal district 1 dataset)

All data elements in a dataset are separated by semicolon.



Hauskoordinaten und Hausumringe des deutschen Liegenschaftskatasters

Bezirksregierung Köln

2. Update

For update the house addresses are delivered as a complete update-dataset. Fixed date for update is April 1 of the current year. The updated datasets are available for delivery up to 1 of July of the current year.

3. glossary of data and key file

The syntax for the data files is as followed in lower case letters standardized:

Example: adressen.txt

schluessel.txt