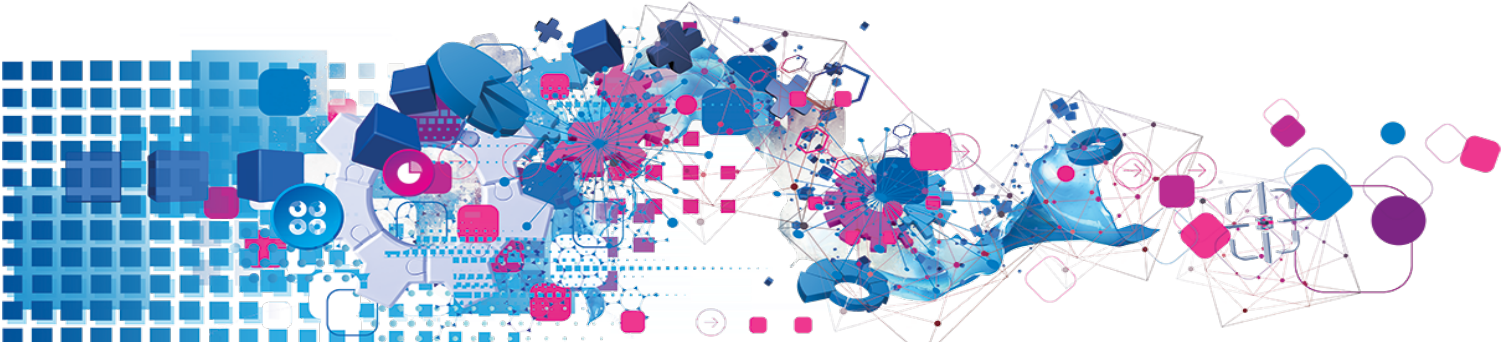


# Germany

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# Introduction

## Germany Address Data Information

Dataset Code:	DEU
Approximate Data Size:	105MB
Data Source:	Deutsche Post's Postleitdaten. All data, extracts and updates © Deutsche Post Direkt.
Update Frequency:	Quarterly The quarterly data release dates are: <ul style="list-style-type: none"><li>• January</li><li>• April</li><li>• July</li><li>• October</li></ul>
Expiry:	Data files will expire 13 months after creation. For example, January data will expire in February of the following year. Ensure every data update is applied promptly, otherwise the data may expire and the product will become unusable.

## List Of Available Data Files

File Extension	File Type	Comment
.dts	Dataset	Main address data.
.zlx	Single Line Index File	Indexing data for use with Single Line searching.
.tpx	Typedown Index File	Indexing data for use with Typedown searching.

# About This Data

This chapter provides detailed information about the DEU dataset.

## Area Covered

The DEU dataset includes all postal codes, towns/cities, streets and PO boxes (Postfach) in the country. Some property ranges are also included.

## Address Elements

The following address elements are stored within the DEU data files.

Address Element	Example	Element Code
Organisation	Deutsche Post AG	O11
Department 1	Direktion Nürnberg	O21
Department 2	Bau- und Immobiliencenter Süd-Ost	O22
PO Box	Postfach 50 01 44	B11
Street	Abbachstr.	S11
Premise number	7	P11
Postcode	80992	C11
Town	Frankfurt	L21
Town - Region**	Frankfurt am Main	L22
District*	Moosach	L31
State*	Bayern	L11
Country*	Germany	X11
Two character ISO country code*	DE	X12
Three character ISO country code*	DEU	X13

\* Elements that only appear in the address if their position is fixed.

\*\* Elements that are returned only if entered in the search or contained in the input address.

## Address Element Definitions

### Building number

Germany data does not contain complete premises-level information. The Building number (P11) element is not populated for most German addresses. However, many organisation addresses do contain premises-level information.

### Town - Region element

The Town - Region element contains postally non-required additional town information that can be used to distinguish between different German towns that have the same official postal name.

For example, in Germany there are many towns with the postal name Neustadt. These towns can easily be distinguished when including the extra information in the Town - Region element, for example Neustadt b. Leinefelde, Neustadt Westerwald, Neustadt an der Weinstrasse, Neustadt b. Coburg, Neustadt (Wied), etc.

As property may be addressed using this extra town information, by default a returned address will include this information if it is supplied in a Pro search or a Pro Web search or Batch input address.

## Abbreviations

As the street type is generally not separate from the street name, no option to abbreviate street types is provided. The common street descriptor "strasse" is abbreviated in the data. You can search on the full or abbreviated form, but the abbreviated form is returned. For example, searching on "Freibergstrasse", "Freibergstraße" or "Freibergstr" will return the same picklist of streets, and the final address will always be returned as "Freibergstr."

## Postal Code Structure

All addresses are postally coded. A postal code is a five digit number, for example 36317. It may begin with a zero. German postal codes are sometimes prefixed by the international sorting code D-.

The first two digits indicate the region of Germany the address is located in. The third digit refers to a city, a part of a city or a municipality. Whether the postal code relates to postboxes, large users or street addresses is determined by the final two digits.

Note that postbox users have two postal codes, one for the postbox address, the other for their street address. Companies receiving a significant amount of mail will have a third postal code for their large user address.

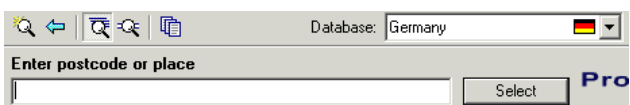
# Using This Data

This chapter provides search tips and other product-specific information when using Pro, Pro Web, or Batch.

These searches are accurate at the time of data release. However, search results may differ depending on the data release you are using.

## With Pro

### Search Examples: Typedown



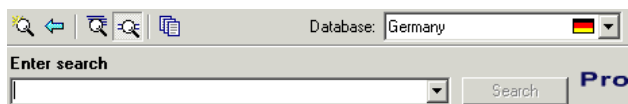
The following table provides a list of these example search types:

- Full address known;
- Postcode not known;
- Company name known;
- PO Box number known.

Search type	Example
Full address known	<ol style="list-style-type: none"><li>1. Enter the postcode, <b>93051</b>, and press <b>Enter</b>.</li><li>2. Enter the first three letters of the street name, <b>hab</b>, and press <b>Enter</b>. In this example <b>hab</b> is enough to uniquely identify <b>Happelstr.</b> because there are no other places in Regensburg that start with "Hab...".</li><li>3. Enter the premises number, <b>2</b>, and press <b>Enter</b>.</li><li>4. The correct address is returned:  Happelstr. 2 93051 REGENSBURG</li></ol>
Postcode not known	<ol style="list-style-type: none"><li>1. Enter the location, <b>bonn</b>, and press <b>Enter</b>.</li><li>2. Enter the first three letters of the street name, <b>pir</b>, and press <b>Enter</b>. In this example <b>pir</b> is enough to uniquely identify <b>Pirolweg</b>, because there are no other places in Bonn that start with "Pir...".</li><li>3. Enter the premises number, <b>15</b>, and press <b>Enter</b>.</li><li>4. The correct address is returned:  Pirolweg 15 53179 BONN</li></ol>
Company name known	<ol style="list-style-type: none"><li>1. Enter the postcode, <b>90471</b>, and press <b>Enter</b>.</li><li>2. Enter the first three letters of the company name, <b>gos</b>, and press <b>Enter</b>.</li><li>3. The correct address is returned:  GOSSEN-METRAWATT GmbH Thomas-Mann-Str. 16-20 90471 NÜRNBERG</li></ol>

Search type	Example
PO box number known	<ol style="list-style-type: none"> <li>1. Enter the postcode, <b>52085</b>, and press <b>Enter</b>.</li> <li>2. Enter the PO Box, <b>500144</b>.</li> <li>3. The correct address is returned:  Postfach 50 01 44 52085 AACHEN</li> </ol>

## Search Examples: Single Line



The DEU dataset contains limited premises-level information. Building numbers should not be included in Single Line searches. To return a complete address, including premises information, you should first search without the building number, for example: **kapellweg,40221**. Enter the building number afterwards, as prompted, and press **Enter** or click **Select** for the final address to be displayed.

The following table provides a list of these example search types:

- Full address known;
- Postcode not known;
- Only street name known;
- Character missing from address;
- Address contains spelling mistake;
- Incomplete address element (partial);
- Incomplete address element (tagged);
- All organisation types in location.

Search type	Explanation
Full address known	<p>Enter the street name followed by the postcode (omit the building number or organisation name if known): <b>marienstr,87452</b></p> <p>You will be prompted for the building number or organisation, then the correct address is returned: Marienstr. 20 87452 ALTUSRIED</p>
Postcode not known	<p>If the postcode is not known, enter the street name followed by the location: <b>jostweg,hamburg</b></p> <p>Enter the building number and the correct address is returned: Jostweg 15 22339 HAMBURG</p>
Only street name known	<p>If only the street name is known, entering it returns a picklist from which the correct one can be selected. Enter <b>mandelstr</b> to view a list of every street of that name in the country.</p>



Search type	Explanation
Character missing from address	If a character is missing from the address the unknown character can be replaced with a question mark. Enter <b>?ellweg,detmold</b> and the correct address is returned: Hellweg 32760 DETMOLD
Address contains spelling mistake	Entering an address that contains one or more spelling errors can still return the correct address. For example, entering <b>fordam,berlin</b> will still return the correct address: Foordamm 12107 BERLIN
Incomplete address element (partial)	If you only have partial address information, you can replace the remainder of an address element with an asterisk. Entering <b>hangstr,pir*</b> will display a picklist of streets called "Hangstr." in all places beginning "Pir..."
Incomplete address element (tagged)	Sometimes it is helpful to tag a part of the search string to let Pro know which part of the address it is. For a list of available search constraints, see below. Searching on <b>berlin@s</b> tells Pro to display a picklist of streets called "Berlin".
All organisation types in location	Enter <b>*bank,bonn</b> to view a list of banks in Bonn.

## Search Constraints

The following search constraints can be used to restrict searches when using the Single Line search engine in Pro , Pro Web or Batch Interactive.

Constraint	Elements Restricted to	Example
@D	District	hessen@d
@L	State/Town/District	bremen@l
@O	Organisation/Department	hamburg*@o,berlin
@S	Street	brandenburg@s
@T	Town	ahornstr,brandenburg@t

## Configuration File Settings

The server side INI file (qawserve.ini) for Pro, Pro Web and Batch will support the following additional settings for DEU data.

### ConditionalFormat

#### Format:

```
[identifier]ConditionalFormat={String}
```

#### Default:

TownRegionPref

#### Purpose:

By default, Town - Region information is only retained in the output address if it was entered in the input address. This setting gives you more control over the output address. The possible values for {String} are:

Setting	Description
PostTownOnly	No additional town information is returned even if it is included in the input. For example: Input address: Am Kreuz 3, 65936 Frankfurt am Main  Output Address: Am Kreuz 3 65936 FRANKFURT
TownRegionPref	Additional town information is returned when included in the input. For example: Input address: Am Kreuz 3, 65936 Frankfurt am Main  Output Address: Am Kreuz 3 65936 FRANKFURT AM MAIN

#### Example:

This setting will ensure Town - Region information is never included in output addresses.

```
DEUConditionalFormat=PostTownOnly
```

## With Pro Web

### Scenarios

The following table indicates the relevant search examples for each Pro Web scenario and search engine that supports DEU address data.

Scenario	Search engine	For search examples, see:
Address Capture on the Intranet	Single Line hierarchical	Single Line search examples on <a href="#">page 8</a> .
Address Capture on the Web	Single Line flattened	Single Line search examples on <a href="#">page 8</a> .
Address Verification on the Web	Verification	Verification search examples on <a href="#">page 12</a> .
Address Capture	Single Line flattened	Single Line search examples on <a href="#">page 8</a> .
Address Verification	Verification	Verification search examples on <a href="#">page 12</a> .
Single Line	Single Line hierarchical	Single Line search examples on <a href="#">page 8</a> .
Standard	Typedown Single Line hierarchical	Typedown examples on <a href="#">page 7</a> . Single Line search examples on <a href="#">page 8</a> .
ActiveX Control	Typedown Single Line hierarchical	Typedown examples on <a href="#">page 7</a> . Single Line search examples on <a href="#">page 8</a> .

## Search Examples: Verification

Users of Pro Web can use address verification functionality to verify a customer's address once they have typed it in full into a web form.

Note that the DEU dataset contains limited premises-level information. Building numbers can be passed through the Verification engine, but will not be checked if premises-level information is not available.

The following table provides a list of example searches and the Verify level they return.

Verify level	Example
Verified	<b>redwitzgang 4 berlin 12487</b> This search brings back a verified address with the verify level of "Verified".
Multiple	<b>hornsdorfer 4 seedorf 23823</b> This search shows what is returned if the user attempts to verify an address without knowing the full street name. This search brings back a verify level of "Multiple" and offers a picklist of possible addresses.
None	<b>schmidt 53129</b> This search brings back a verify level of "None" as the address does not exist in the data.
StreetPartial	<b>segeberger str seedorf 23823</b> This search brings back a verify level of "StreetPartial" because premises-level information was not entered but exists in the data for this street.
InteractionRequired	<b>oak ligen ems bernd-rosemeyer-str 14 lingen 49808</b> This search brings back a verify level of "InteractionRequired" because the company name was not correct and, although there was only one match, the address requires verification from the user.

For more information about the Verification engine, refer to the Address Verification section of the Pro Web Integration Guide.

## Configuration File Settings

See [page 10](#) for the additional settings available for DEU data.

## With Batch

If you are using Batch to clean your database against more than one dataset, DataPlus information **cannot** be configured.

This section details the information relevant to using Batch with Germany address data.

### Dataset-Specific Input Field Types

When you are configuring a Batch session, you can specify the address elements which are contained in your input fields. This can speed up the cleaning process as Batch does not have to work out which address element is contained within a field.

The following table describes the input field types that you can specify for DEU data, and the address elements Batch will expect for each. The field types are available from the **Set Field Type** drop-down menu in the Select Input Fields dialog of the Batch Configuration Wizard.

Input Field Type	Expected Address Element
Organisation	Organisation
PO Box/Street line	Street, Premises, PO Box
PO Box	PO Box
Street line	Street, Premises
Premises only	Premises
Postcode/Place	Postcode, District, Town, State
Postcode	Postcode
District/State/Town	District, State, Town
Country	Country name/ISO code

If your input field contains more than one address element, you can specify these from the **Multiple Elements** sub-menu. For example, you can specify that the Town and Postcode elements are stored in the same field in your input database. The dataset-specific input field types available for DEU data are:

Item	Field Contains
Organisation	Organisation
Department	Department
PO Box	PO Box
Street	Street
Premises	Premises
Postcode	Postcode
District	District
Town	Town
State	State
Country	Country name/ISO code

## Dataset-Specific Information Bits

### DEU-Specific Information Bits

When using DEU data a selection of dataset-specific information bits can be returned.

- For Standalone users, DEU-specific information bits are returned as the first 8 digits of the 16-digit extended match result as displayed in Interactive.
- For API users, these are returned by the function **QABatchWV\_GetMatchInfo** as parameter *rlCountryInfo1*, and from the function **QABatchWV\_Clean** in the parameter *rsReturnCode* from the 13th to 20th characters. Refer to the Batch manual for further information about these functions.

The following table provides a full list of DEU-specific information bits that can be returned.

Information Bit	Description
00000001	A match was made to a Town - Region alias

### Search Examples: Batch Interactive

For information about the best methods for searching on German addresses using Batch Interactive please refer to Single Line search examples on [page 8](#) and Typedown search examples on [page 7](#).

### Configuration File Settings

See [page 10](#) for the additional settings available for DEU data.