Data Guide

Luxembourg

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Introduction

Luxembourg Address Data Information

Dataset Code:	LUX
Approximate Data Size:	1MB
Data Source:	P&T Luxembourg
Update Frequency:	Annually
Expiry:	The data is released every April. Data files expire approximately 15 months after the data release date. Ensure every data update is applied promptly, otherwise the data may expire and the product will become unusable.

List Of Available Data Files

The following table lists the files that are comprise the LUX data:

File Name	File Type	Comment
.dts	Dataset	Main address data.
.tpx	Typedown Index File	Indexing information for use with Typedown searching.
.zlx	Single Line Index File	Indexing information for use with Single Line searching, and by the QAS Batch and QAS Pro Web Verification engines.

About This Data

This chapter provides detailed information about the LUX dataset.

Area Covered

The Luxembourg dataset covers all postal addresses in Luxembourg.

Address Elements

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

Address Element	Example	Element Code
Building name*	Msn. de Retraite	P12
PO Box number	12	B11
Building number*	1900	P11
Street	rue du Parc	S11
Postcode	6460	C11
Locality	Lauterborn	L11
Country name**	Luxembourg	X11
Three character ISO country code**	LUX	X12
Two character ISO country code**	LU	X13

** Denotes elements that are not provided for all addresses.*
*** Denotes elements that only appear in the address if their position is fixed.*

The LUX dataset does not contain complete premises-level information. Building numbers are provided where necessary, for example, if there is more than one postal code for a single street (see Postal Code Structure below). The Building number (P11) and Building name (P12) elements are not populated for most Luxembourg addresses.

Default Address Format

By default, a street address in Luxembourg is spread over three lines. The top line contains any building name for the address. The second line contains the building number followed by the street name, or, if the address is a post office box, the PO box number. The last line contains the postal code, followed by the locality. Elements will be returned in mixed case except for the locality, which should be returned in capital letters. For example:

Clinique Gerontologique

1900 rue Maximilien

6463 ECHTERNACH

Postal Code Structure

A postal code in Luxembourg consists of a four-digit number, which cannot begin with 0, for example, 9644. Generally, a postal code represents a single street. However, in some cases there may be more than one postal code for a single street, or a single postal code may cover several streets. Large buildings can have their own unique postal code, and a small number of addresses do not have a postal code.

Using This Data

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

Search Examples: Typedown

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

- Full address known
- Postal code not known
- PO Box number known.

Search type	Example
Full address known	1) Enter the postal code, **5958**, and press **Enter**. 2) Enter the building number, **7**, and press **Enter**. (Note that for a few postal codes you may first be required to enter the locality and/or street.) 3) The correct address is returned: 7 rue Espen 5958 ITZIG
Postal code not known	1) Enter the location, **beckerich**, and press **Enter**. 2) Enter the first letter of the street name, **e**, and press **Enter**. In this example **g** is enough to uniquely identify **Ellerwee**. 3) Enter the building number, **29**, and press **Enter**. 4) The correct address is returned: 29 Ellerwee 8523 BECKERICH
PO box number known	1) Enter the location, **wasserbillig**, and press **Enter**. 2) Enter **po box** or **boites postales** and press **Enter**. 3) Enter the PO box number, **50,** and press **Enter**. 4) The correct address is returned: Boites Postales 50 6601 WASSERBILLIG

Search Examples: Single Line

The LUX dataset contains limited premises-level information. Building names or numbers should not be included in Single Line searches. To return a complete address, including premises information, you should first search without the building name or number, for example: **rue large,1917**. Enter the building name or 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
- Postal code not known
- Only street name known
- Character missing from address
- Address contains spelling mistake
- Incomplete address element (partial)
- Incomplete address element (tagged)

Search type	Explanation
Full address known	Enter the street name and postal code (omit the building name or number if known): **bildchen,6225** You will be prompted for the building name or number, and then the full address will be returned: 22 Bildchen 6225 ALTRIER
Postal code not known	If the postal code is not known, enter the street name followed by the locality: **rue des jardins,olm** Enter the building name or number and the correct address will be returned: 25 rue des Jardins 8394 OLM

Search type	Explanation
Only street name known	If only the street name is known, entering it will return a picklist from which the correct one can be selected. Enter **rue du moulin** to view a list of every street of that name in the country.
Character missing from address	If one character is missing from the address the unknown character can be replaced with a question mark: **fin?elshaff,8059** returns the correct address, once the building name or number is entered: 6 Findelshaff 8059 BERTRANGE
Address contains spelling mistake	Entering an address that contains one or more spelling errors can still return the correct address. **jeannegassel,8538** will return the correct street name: Jeannegaessel 8538 HOVELANGE
Incomplete address element (partial)	If you only have partial address information, you can replace the remainder of an address element with an asterisk. **rue du lac,b*** will display a picklist of all streets called **rue du Lac** in all places beginning with “B…”.
Incomplete address element (tagged)	Sometimes it is helpful to tag a part of the search string to let QAS Pro know which part of the address it is. For a list of available search constraints, see page 9. Searching on **sept*@l** tells QAS Pro to display a picklist of localities that beginning with “Sept…”

Search Constraints

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

Constraint	Elements Restricted to	Example
@L	Locality	al*@L
@B	Building number and building name	Clinique*@B
@X	Postal code	1234@X
@S	Street	Cimetiere@S

With QAS Pro Web

Scenarios

The following table indicates the latest QAS Pro Web version number and search engine for each QAS Pro Web scenario that supports LUX address data, and includes a link to relevant search examples.

Scenario	Search engine	For search examples, see:
Address Capture on the Intranet	Single Line hierarchical	QAS Pro Single Line search examples on page 7.
Address Capture on the Web	Single Line flattened	QAS Pro Single Line search examples on page 7.
Address Verification on the Web	Verification	Verification search examples on page 11.
Address Capture	Single Line flattened	QAS Pro Single Line search examples on page 7.
Address Verification	Verification	Verification search examples on page 11.
Single Line	Single Line hierarchical	QAS Pro Single Line search examples on page 7.
Standard	Typedown Single Line hierarchical	QAS Pro Typedown examples on page 5 QAS Pro Single Line search examples on page 7
ActiveX Control	Typedown Single Line hierarchical	QAS Pro Typedown examples on page 5 QAS Pro Single Line search examples on page 7

Search Examples: Verification

Users of QAS 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 LUX dataset contains limited premises-level information. Building names or numbers can be passed through the Verification engine, but will not be checked if premises-level information is not available.

The following table provides example searches and explains the Verify level they return.

Verify level	Example
Verified	**rue des Champs** **5711 ASPELT** **Luxembourg** This search brings back a verified address with the verify level of "Verified".
None	**Nosuch Street** **Unknown Town** This search brings back a verify level of "None" because the address does not exist in the data.
Multiple	**rue de la Gare** **4999** **Luxembourg** This search shows what can be returned if the user attempts to verify an incomplete address. The search brings back a verify level of "Multiple" and offers a picklist of possible addresses.
InteractionRequired	**Dall** **9395 TANDEL** **Luxembourg** This search brings back a verify level of "InteractionRequired" because the street name is not complete and, although there is 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 *QAS Pro Web Integration Guide*.

With QAS Batch

This section details the information relevant to using QAS Batch with Luxembourg data.

Note that the LUX dataset contains limited premises-level information. Building names or numbers can be passed through QAS Batch, but will not be checked if premises-level information is not available.

Country-Specific Input Fields

When configuring a QAS Batch session, it is possible to attach a country-specific item to an input field. This can speed up the cleaning process as QAS Batch does not have to work out which address element is contained within a field. The country-specific items that can be attached to an input field are shown in the following tables:

Item	Field Contains
Company	Company
PO Box/Street line	PO Box, street, premises
PO Box	PO Box
Street line	Street, premises
Premises only	Premises
Postcode/Locality	Postal code, locality
Postcode	Postal code
Locality	Locality
Country	Country/ISO code

Available Country-Specific Menu Items

The country-specific items available from the Advanced sub-menu are:

Item	Field Contains
PO Box	PO Box
Premises	Premises
Street	Street
Postcode	Postal code
Locality	Locality
Country	Country/ISO code

The address items on the Advanced sub-menu can be input in any combination. For example, it is possible to attach the Street and Locality to the same field. This is not possible from the main Select Input Fields menu. For instructions on how to configure country-specific input fields, refer to the documentation that accompanies your copy of QAS Batch.

Search Examples: QAS Batch Interactive

For information about the best methods for searching on Luxembourg addresses using QAS Batch Interactive please refer to Single Line search examples on page 7 and Typedown search examples on page 5.