

# Canada

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Revision 1, December 2017

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# Introduction

## Canada Address Data Information

Dataset Code:	CAN
Approximate Data Size:	Pro: 90MB Pro Web: 90MB Batch: 1.4GB
Data Source:	Canada Post Corporation / Société canadienne des postes
Update Frequency:	Monthly
Expiry:	Data files will expire 13 months after creation. For example, March data will expire in April 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.
.sdp	Program Data	Indexing data used to identify Large Volume Receivers.

### List Of Available Data Files (Batch Specific)

Additionally, these data files are used with Batch API:

FilenameID	Description	Availability	Data Location
dell_inst_mult	Postal Code Address data	World Wide	
lvr_zip_add[1-6]			
lvr_zip_add[1-6].ind			
ref_add[1-5]			
ref_add[1-5].ind			
zip_add[1-5]			
zip_add[1-5].ind			
mcr			
mcr.ind			
scr			
scr.ind			

FilenameID	Description	Availability	Data Location
altstreetcodes.set dellinsttypes.set dir.common.set dir.set dir.strict.set dircodes.set errors.set gd.set pobox.set provcodes.set provinces.set provinces.strict.set rr.set streetcodes.common.set streetcodes.set streetcodes.strict.set type2.set unitcodes.set unitcodes.strict.set	Postal Code Address data	World Wide	sets\
dell_inst_mult.fmt dcr_[A-F].fmt ref_add[1-5].fmt zip_add[1-5].fmt mcr.fmt scr.fmt muni_zips.fmt	Postal Code Address data	World Wide	fmt\
pcm ref_poc[1-5] ref_poc[1-5].ind zip_poc[1-5] zip_poc[1-5].ind	Point of Call data	World Wide	
pcm.fmt ref_poc[1-5].fmt zip_poc[1-5].fmt	Point of Call data	World Wide	fmt\
buildinfo	IST Build information	World Wide	

# About This Data

## Area Covered

The CAN dataset covers all streets and Postal Code<sup>OMs</sup> in the provinces and territories of Canada.

## Address Elements

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

Address Element	Example	Element Code
Large volume receiver name	Athabasca University	O11
Government department name	Agriculture Canada	O12
General Delivery name	General Delivery	O13
Government branch name	Farm Credit Corporation	O21
PO Box	PO Box 302	B11
General Delivery	GD	B12
Premises number / range	14	P11
Building name	Denby House	P12
Sub-premises number / range	102	P21
Suite/Unit/Apartment number	Suite 103	P22
Route service box range	51138	P23
Street name	Greenman Drive SW	S11
Route name and number	RR 1	S12
Municipality	KINGSTON	L31
Delivery installation name	STN MAIN	L41
Delivery installation qualifier name and type	Succ Bureau-Chef	L51
Postal CodeOM	K7M 7T5	C11
Province code	NL	L11
Province name (English)*	Newfoundland and Labrador	L12
Province name (French)*	Terre-Neuve-et-Labrador	L13
Submitted Province**	Nouvelle-Écosse	L14
Directory area name*	Sudbury	L21
Invalid municipality name*	Belmont Park	L32
Country name*	Canada	X11
Two character ISO country code*	CA	X12
Three character ISO country code*	CAN	X13

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

\*\* Elements used in Batch output address formats only. See "PO Box, General Delivery and Province Variations" on page 22 for more information.

## Address Element Definitions

### Street Names

The Canada dataset contains both English and French street names.

With English streets, the street name is followed by the street type and any directional component. With French streets, the street type is followed by the street name, and any directional component.

### Abbreviations

By default, all street type descriptors are presented using the abbreviated street type symbols as defined by Canada Post. Directional components of street names (for example, 'sw', 'n' and 'e') can be omitted from searches.

When searching for a French street, such as rue de la **J**ardin, it is possible to omit the street type descriptor, and common words ('de' and 'la' in this example) and search for the street name under the keyword '**J**ardin'. More complex street names, such as Avenue du Bord de l'eau, are indexed by the keyword 'l'eau', and the string 'Bord de l'eau'.

### Province Codes

Canada's ten provinces and three territories are referred to as provinces in the data and in this guide. The table below lists the Canadian provinces and their related province codes.

Province (English/French)	Code
Alberta	AB
British Columbia / Colombie-Britannique	BC
Manitoba	MB
New Brunswick / Nouveau-Brunswick	NB
Newfoundland and Labrador / Terre-Neuve et Labrador	NL
Northwest Territories / Territoires du Nord-Ouest	NT
Nova Scotia / Nouvelle-Écosse	NS
Nunavut	NU
Ontario	ON
Prince Edward Island / Île-du-Prince-Édouard	PE
Quebec / Québec	QC
Saskatchewan	SK
Yukon Territory	YT

### Postal Code<sup>OM</sup> Structure

Canadian Postal Code<sup>OM</sup>s take the form 'ANA NAN' where 'N' represents a number and 'A' represents a letter. M4B 1G5, for example.

The first three characters are referred to as the Forward Sortation Area (FSA) and the last three as the Local Delivery Unit (LDU). In Urban areas, a single Postal Code<sup>OM</sup> may cover a specific city block, a single building, or a large volume mail receiver. In rural areas, the Postal Code<sup>OM</sup> identifies a specific rural community.

## Default Address Format

By default, Experian provides three Canadian address formats:

- Civic
- PO Box
- Rural route

In each address format, the first line contains additional or optional delivery information, and the third line consists of the municipality name, followed by the two letter province code, followed by two spaces, and then the Postal Code<sup>OM</sup>. The second line varies depending on the particular address format.

If the first line is blank, the second line will become the first.

### Civic Addresses

Civic addresses consist of three lines. The first line contains any additional or optional delivery information. The second line consists of any premises and suite information, followed by the street name, and direction. The third line consists of the municipality name, followed by the two letter province code, which is followed by two spaces, and then the Postal Code<sup>OM</sup>.

### PO Box addresses

PO Box addresses consist of three lines. The first line contains any additional or optional delivery information. The second line contains the PO Box number, followed by delivery installation information. The third line is identical to that of a civic address.

### Rural route addresses

Rural route addresses consist of three lines. The first line contains civic address information, the second line contains route information, and the third line is identical to that of a civic 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 and Pro Web

### Search Examples: Typedown

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

- Full address known;
- Postal Code<sup>OM</sup> not known;
- PO Box number known;
- Company name known.

Search type	Example
Full address known	<ol style="list-style-type: none"><li>1. Enter the Postal Code<sup>OM</sup>, m1k2t9, and press Enter.</li><li>2. Enter the premises number, 89, and press Enter.</li><li>3. The correct address is returned: 89 Ranstone Gdns SCARBOROUGH ON M1K 2T9</li></ol>
Postal Code <sup>OM</sup> not known	<ol style="list-style-type: none"><li>1. Enter the location, Vancouver, and press Enter.</li><li>2. Enter the first four letters of the street name, traf, and press Enter. In this example traf is enough to uniquely identify Trafalgar Street as there are no other places in Vancouver starting with "Traf".</li><li>3. Enter the premises number, 4135, and press Enter.</li><li>4. The correct address is returned: 4135 Trafalgar St VANCOUVER BC V6L 3C6</li></ol> <p>With Pro 6.47 and later, you can combine the premises number and street name in the same stage of the search. In this example, typing 4135 traf at step 2 would be enough to uniquely identify "4135 Trafalgar St", and pressing Enter would return the correct address.</p>
PO box number known	<ol style="list-style-type: none"><li>1. Enter the Postal Code<sup>OM</sup>, m5x1b1, and press Enter.</li><li>2. Enter the PO Box number, 55, and press Enter.</li><li>3. The correct address is returned: PO Box 55 Stn 1st Can Place TORONTO ON M5X 1B1</li></ol>

Search type	Example
Company name known	<ol style="list-style-type: none"> <li>1. Enter the location, Calgary, and press Enter.</li> <li>2. Enter the first four letters of the company name, prim, and press Enter.</li> <li>3. The correct address is returned: Primewest Energy Inc. PO Box 2350 Stn M CALGARY AB T2P 5K8</li> </ol>

## Search Examples: Single Line

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

- Full address known;
- Postal Code<sup>OM</sup> 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 premises number followed by the Postal Code <sup>OM</sup> : 138,m4a2b7 The correct address is returned: 138 Sloane Ave NORTH YORK ON M4A 2B7
Postal Code <sup>OM</sup> not known	If the Postal Code <sup>OM</sup> is not known, enter the premises number and street name followed by the locality: 108 london rd,newmarket The correct address is returned: 108 London Rd NEWMARKET ON L3Y 6A7
Only street name known	If only the street name only is known, entering it will return a picklist from which the correct one can be selected. Enter giles rd to view a list of every street named "Giles Road" in the country.
Character missing from address	If a character is missing from the address it can be replaced with a question mark. Enter 1032,a?shire dr,burnaby and the correct address is returned: 1032 Ayshire Dr BURNABY BC V5A 4A1
Address contains spelling mistake	Entering an address that contains one or more spelling errors can still return the correct address. Entering 77 tinsley ave,scarborough will still return the correct address: 77 Tansley Ave SCARBOROUGH ON M1J 1P4

Search type	Explanation
Incomplete address element (partial)	If you only have partial address information, you can replace the remainder of an address element with an asterisk. Entering 44 high st,et* will still return the correct address: 44 High St ETOBICOKE ON M8Y 3N9
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 high st,on@c tells Pro to display a picklist of 'High Streets' within the ON province code.

## Search Constraints

The following search constraints can be used to restrict searches when using the Single Line search engine in Pro or Batch Interactive. Search constraints cannot be used with Pro Web.

Constraint	Elements Restricted to	Example
@c	Province name or code	high st,on@c
@s	Street	belle@s
@o	Organization or large volume receiver	ponoka*@o
@p	Building name or premise number	hamilton@p

## Search Examples: Verification

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

Verify level	Example
Verified	825 Dusseault Crt Yellowknife NT X1A 2Z4 This search brings back a verified address with the verify level of "Verified". In Pro the final address screen will be displayed for you to confirm the matched address.
Multiple	14 Arnold Ave ON This search brings back a verify level of "Multiple" and offers a picklist of possible addresses. This is because the city has not been supplied, and the search has resulted in a match to multiple streets with the same name.
None	NoStreet NoTown This search brings back a verify level of "None" as the address does not exist in the data.

Verify level	Example
StreetPartial	38th Ave W Vancouver BC V6M 1R9  This search brings back a verify level of "StreetPartial" because the premise or building information was not specified. In Pro you will be prompted to enter a street number from the range displayed.
PremisesPartial	351 Saguenay Dr Saskatoon ON S7K 5T4  This search brings back a verify level of "PremisesPartial" as there is more than one apartment at the address. In Pro you will be prompted to enter a premises number from the range displayed.
InteractionRequired	151 David Rd Nepean ON K2G  This search brings back a verify level of "InteractionRequired" because the street name was not correct and the Postal Code <sup>OM</sup> was incomplete. Therefore, 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, or the Verification Searching section of the Pro Getting Started Guide.

## Additional Features Of Pro and Pro Web

	For more information...
Retention Of Unmatched Text	See <a href="#">page 12</a>
Configuration File Settings	See <a href="#">page 14</a>
Matching Flags*	See <a href="#">page 17</a>

\* This feature is relevant to Pro Web only

### Retention Of Unmatched Text

In CAN data, unmatched text is retained and reported to the user in the following additional address elements:

U11	<b>Retained sub-premise</b> This element code is used to retain any unmatched information relating to sub-premises. This includes some apartments and suites which may not appear in the PAF, but which may be needed for successful mail delivery.
U21	<b>Retained Secondary Number</b> This element is used to retain any unmatched numbers found before a matched premise. If you include this element in a layout so that it precedes the premises number (P11) it will be followed by a hyphen. For example, '11-26 Sloane Avenue...' will be returned even if the search address was '11 26 Sloane Avenue...'.

**U31 Identifiable Pre-Street Information**

This element is used to retain any recognizable address information preceding the Street element. For example, an address may feature a phrase such as 'care of Mr. Holiday'. In such cases the text 'care of' is retained using this element code, as is any unmatched text that follows it.

**U41 General Pre-Street Information**

This element is used to retain any other unmatched information that is found before the first matched text. This element code allows the capture of phrases such as 'round the back' - which could be important for successful delivery of mail.

**U51 Post-Street Information**

This element is used to retain any unmatched information that is found after the Street element (provided it does not match certain excluded strings).

To return these additional elements in your output you must either:

- Use the Configuration Editor to ensure the Enable extended retention box is checked in the Format Options pane for your Canada layout;
- Or, use the `UseExtendedRetention` setting in your Canada layout in the `qawserve.ini` file (see [page 14](#)).

These elements can be fixed to address layouts like other additional elements. For more information about layouts and elements, see the Configuration Editor Help.

## Configuration File Settings

The following settings should appear in each relevant address layout of the Pro Web configuration file, qawserve.ini:

- UseExtendedRetention ([below](#))
- SplitExtendedRetentionItems ([page 15](#))
- SubPremiseFormat ([page 16](#))

For more information about configuration settings, refer to your product documentation.

### UseExtendedRetention

Format:

```
[identifier]UseExtendedRetention={Boolean}
```

Default:

TRUE

Purpose:

This keyword allows you to retain unmatched input text in your output addresses. For more information about unmatched input text see [page 12](#).

Example:

```
CANUseExtendedRetention=FALSE
```

This setting would prevent any unmatched address text being returned in your CAN output addresses.

## SplitExtendedRetentionItems

### Format:

```
[identifier]SplitExtendedRetentionItems={element codes}
```

### Default:

Blank, but is usually set in the ini file depending on the dataset.

### Purpose:

This keyword allows you to specify the lines which retained input text can split across. The first element code is always one of the following:

- U11 (retained sub-premise)
- U21 (retained secondary number)
- U31 (identifiable pre-street information)
- U41 (general pre-street information)
- U51 (post-street information)

Additional element codes are always consecutive. For example, U51 should always be followed by U52, and so on. Note that you must have enough address lines configured in the layout for these settings to work successfully. For more information on configuring address lines, see your product documentation.

For more information about unmatched input text and associated element codes, see [page 12](#).

### Example:

```
CANSplitExtendedRetentionItems=U21  
+U22+U23
```

This setting would allow retained pre-street information to split across three lines in CAN output addresses. If this setting was not used, any retained pre-street information would be returned in one line.

## SubPremiseFormat

### Format:

SubPremiseFormat={value}

### Values:

Prepend, Separate

### Default:

No value

### Purpose:

When the 'prepend' value is used, this setting standardizes the sub-premise formatting for Canadian addresses to follow Canada Post preferred address formatting requirements. I.e. the address will be displayed using the '*sub-premise*'-'*premise*' format. When the 'separate' value is used, the address will be displayed using the *premise street sub-premise* format.

When this setting is enabled, the "UseExtendedRetention" (see page 14) will be switched on automatically.

When no value is specified, the sub-premise will be displayed based on the default Canada address formatting rules.

### Examples:

SubPremiseFormat=prepend

108-815 Main Street

SubPremiseFormat=separate

815 Main Street Apt 108

## Matching Flags

Canada matching flags are only available with Pro Web 5.60 (or later).

There are a number of matching flags associated with the CAN verification engine. The Verified Match Information DataPlus set returns these flags with a value of 0 (False) or 1 (true).

To return the flag as DataPlus information, the DataPlus line must be configured in Configuration Editor. For more information, see the Configuration Editor Help program.

The following matching flags are available with the CAN verification engine:

- Large Volume Receiver / Building Name Added or Changed ([page 18](#))
- Building Number Added or Changed ([page 18](#))
- Street has been (non-trivially) corrected ([page 18](#))
- Route Service has been matched ([page 18](#))
- Municipality name has been added or changed ([page 19](#))
- Municipality name has been alias matched ([page 19](#))
- Province has been added or changed ([page 19](#))
- Postal Code<sup>OM</sup> has been added or corrected ([page 19](#))
- Sub premise has been retained ([page 20](#))
- Secondary number has been retained ([page 20](#))
- Identifiable pre-street information has been retained ([page 20](#))
- General pre-street information has been retained ([page 20](#))
- Post-street information has been retained ([page 21](#))

### Large Volume Receiver / Building Name Added or Changed

This flag indicates that the name of a Large Volume Receiver or Building has been added or changed during the matching process.

Example:

Input address:	Output address:
General Hospital 1 Hospital Way VICTORIA BC V8Z 6R5	Victoria General Hospital 1 Hospital Way VICTORIA BC V8Z 6R5

### Building Number Added or Changed

This flag indicates that a building number has been added or changed during the matching process.

Example:

Input address:	Output address:
Videotron rue Jean-Perrin QUÉBEC QC G2C 1S4	Videotron 2200 rue Jean-Perrin QUÉBEC QC G2C 1S4

### Street has been (non-trivially) corrected

This flag indicates that non-formatting changes have been made for a matched address. The table below demonstrates example changes and whether they would trigger the flag or not:

Input Street	Output Street	Flag Set
1 Main Street	1 Main St	0
1 North Main St	1 N Main S	0
1 Maine St	1 Main St	1
1 Main Rd	1 Main St	1

### Route Service has been matched

This flag indicates that a matched address was a Route Service address.

Example:

Input address:	Output address:
29221 Flat Rock Rd RR 6 DRESDEN ON N0P 1M0	29221 Flat Rock Rd RR 6 DRESDEN ON N0P 1M0

Municipality name has been added or changed

This flag indicates that a municipality name was added or changed during the matching process.

Example:

Input address:	Output address:
10 Rolland Rd TORONTO ON M4G 1V5	10 Rolland Rd EAST YORK ON M4G 1V5

Municipality name has been alias matched

This flag indicates that an alias municipality name was used during the matching process.

Example:

Input address:	Output address:
30 Weston Rd WESTON ON M6N 3P4	30 Weston Rd TORONTO ON M6N 3P4

Province has been added or changed

This flag indicates that a province name was added or changed during the matching process.

Example:

Input address:	Output address:
40 Claude Rd FRENCHVALE B2A 4C8	40 Claude Rd FRENCHVALE NS B2A 4C8

Postal Code<sup>OM</sup> has been added or corrected

This flag indicates that a Postal Code<sup>OM</sup> was added or changed during the matching process.

Example 1:

Input address:	Output address:
9 Brookview Cres SUSSEX NB	9 Brookview Cres SUSSEX NB E4E 2H6

Example 2:

Input address:	Output address:
9 Brookview Cres SUSSEX NB B2B 2H6	9 Brookview Cres SUSSEX NB E4E 2H6

### Sub premise has been retained

This flag indicates that the output address contains unmatched sub premise information.

Example:

Input address:	Output address:
Apt 6 115 Tweed Cres LONDON ON N5X 1Z5	115 Tweed Cres Apt 6 LONDON ON N5X 1Z5

### Secondary number has been retained

This flag indicates that the output address contains unmatched secondary number information such as an apartment, unit or suite.

Example:

Input address:	Output address:
6-115 Tweed Cres LONDON ON N5X 1Z5	6-115 Tweed Cres LONDON ON N5X 1Z5

### Identifiable pre-street information has been retained

This flag indicates that the output address contains standard information before the street, such as a 'Care of' or 'Attn:'.

Example:

Input address:	Output address:
Attn: Legal 210 ch Porter ULVERTON QC J0B 2B0	Attn: Legal 210 ch Porter ULVERTON QC J0B 2B0

### General pre-street information has been retained

This flag indicates that the output address contains non-standard information before the street.

Example:

Input address:	Output address:
Buzzcut Inc 29221 Flat Rock Rd RR 6 DRESDEN ON N0P 1M0	Buzzcut Inc 29221 Flat Rock Rd RR 6 DRESDEN ON N0P 1M0

Post-street information has been retained

This flag indicates that the output address contains unmatched information after the street.

Example:

Input address:	Output address:
40 Claude Rd Pauly's Cove FRENCHVALE NS B2A 4C8	40 Claude Rd Pauly's Cove FRENCHVALE NS B2A 4C8

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

## With Batch

Batch provides a certified address matching engine in both the Standalone and API products. This allows Experian to receive accreditation from Canada Post under their Software Evaluation and Recognition Program (SERP), which is a prerequisite to being able to sell Batch products intended to reap Canada Post mailing discounts. You can enable SERP certified output formatting when you set up output in the Batch Configuration Wizard.

Customers seeking to meet the Canada Post Address Accuracy Program requirements must produce Statement Of Accuracy (SOA) reports on their mailings. For information about SOA reports in Batch, see [page 25](#).

See [page 4](#) for a complete list of the Batch-specific data files installed from your data disk.

## Output Data Format

### Forms Of Address

The CAN dataset contains two Forms of address which can be used in Batch: 'Default' and 'SERP Certified'. You should use the 'SERP Certified' Form to create output address layouts that conform to Canada Post requirements. For more information about Forms of Address and configuring output layouts, see your Batch documentation.

### Rural Route and Large Volume Receiver Addresses

When Batch identifies a Rural Route (RR) or Large Volume Receiver (LVR) address, it is sometimes only possible to check and clean the municipality, province and Postal Code<sup>OM</sup>. In these cases, the remaining input information is combined and returned using the S11 element (RR addresses) or the O11 element (LVR addresses). This ensures no address information is lost and the output address is still valid according to Canada Post validation rules. You should ensure these elements are present in your output layout to return valid RR and LVR addresses.

See [page 6](#) for a complete list of address elements and codes.

## Province Variations

If your input database includes Provinces in English, French and as two-letter codes, you can use the Submitted Province (L14) element in your Canada output layout to retain these variations in the output data.

For a complete list of address elements and codes, see [page 6](#).

## 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 CAN 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
LVR/Govt Dept/Govt Branch/GD name	Any Organisation name
Street line/RR/PO Box	Premises, street or postal delivery address lines
Street line/RR	Premises or street address lines
Premises only	Premises and sub premises
PO Box	Postal delivery address
Last line	Province, municipality and Postal Code <sup>OM</sup>
Municipality	Municipality
Delivery Inst area/type/qualifier name	Delivery installation name, qualifier or type
Province	Province Postal
Code <sup>OM</sup>	Postal Code <sup>OM</sup> Country
Country/identifier	

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 Postal Code<sup>OM</sup> elements are stored in the same field in your input database. The dataset-specific input field types available for CAN data are:

Item	Field Contains
LVR/Govt dept/GD name	Large volume receiver name
Govt Branch name	Government branch name
Primary number	Primary premises number or range
Street/RR	Street name
Sub-building number	Sub-premises number or range

Item	Field Contains
Suite/Unit/Apt number	Suite, unit or apartment number
Box number	Route service box range
PO Box/General Delivery	PO Box or General Delivery
Municipality	Municipality
Province	Province
Postal Code <sup>OM</sup>	Postal Code <sup>OM</sup>
Country	Country/identifier

## Dataset-Specific Information Bits

### CAN-Specific Information Bits

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

- For Standalone users, CAN-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 CAN-specific information bits that can be returned.

Information Bit	Description
10000000	Premises number optimized, changed or inserted
20000000	Route number optimized, changed or inserted
40000000	Extraneous data optimized, changed, inserted or removed
80000000	Street suffix optimized, changed, inserted or removed
01000000	Station name optimized, changed, inserted or removed
02000000	Station type optimized, changed, inserted or removed
04000000	Station qualifier optimized, changed, inserted or removed
08000000	Province optimized, changed, inserted or removed
00100000	Street type optimized, changed, inserted or removed
00200000	Street direction optimized, changed, inserted or removed
00400000	Community optimized, changed, inserted or removed
00800000	Street name optimized, changed, inserted or removed
00010000	Apartment keyword optimized, changed, inserted or removed
00020000	Route/Box keyword optimized, changed, inserted or removed
00040000	Foreign record keyword optimized, changed, inserted or removed
00080000	Apartment number optimized, changed, inserted or removed
00001000	Box number optimized, changed, inserted or removed
00002000	Street number outside valid range

Information Bit	Description
00004000	Route Number outside valid range
00008000	Invalid '#' symbol in address
00000100	Valid Postal Code <sup>OM</sup>
00000200	Postal Code <sup>OM</sup> changed from Rural to Urban
00000400	Postal Code <sup>OM</sup> corrected
00000800	LDU changed (see <a href="#">page 7</a> )
00000010	FSU changed (see <a href="#">page 7</a> )
00000020	Postal Code <sup>OM</sup> inserted
00000040	Postal Code <sup>OM</sup> changed
00000080	A better Postal Code <sup>OM</sup> exists
00000001	Address considered Valid for SERP (no changes required to input)
00000002	Address considered Correctable for SERP (input has been corrected and a unique match supplied)
00000004	Address considered Non-Correctable for SERP (input could not be corrected or is too ambiguous to supply a unique match)

### Extended Dataset-Specific Information Bits

To assist in identifying unmatched addresses, an additional set of CAN-specific information bits can be returned. These bits indicate the reason why addresses could not be matched.

- For Standalone users, the extended CAN-specific information bits are returned as the second 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 21st to 28th characters.

Refer to the Batch manual for further information about these functions.

Information Bit	Description
10000000	Postal Code <sup>OM</sup> not found
20000000	Province not found
40000000	Community not found
80000000	Street name not found
01000000	Street type not found or invalid
02000000	Street direction not found or invalid
04000000	Street suffix range error
08000000	Street number not found or invalid
00100000	Suite keyword invalid
00200000	Suite number range error or exceeds 6 characters
00400000	Route/box keyword not found
00800000	Route service not found/range error

Information Bit	Description
00010000	Box number not found or invalid
00020000	Delivery installation name not found
00040000	Delivery installation keyword not found
00080000	Delivery installation qualifier not found
00001000	General delivery keyword not found
00002000	Invalid '#' symbol in address
00004000	Other/unknown reason for unmatched address
00008000	RR or LVR address (addresses identified as RR or LVR may not be checked but still return valid matches). For more information see <a href="#">page 21</a> .
00000100	RR or LVR address corrected. For more information see <a href="#">page 21</a> .
00000200	Rural address questionable. The address may be valid but appears to be inconsistent or missing key address elements.
00000400	Apartment address questionable. The address may be valid but appears to be inconsistent or missing key address elements.

## Dataset-Specific Reports

In order to receive mailing discounts from Canada Post under the Address Accuracy Program, addresses must be validated against Canada Post's address data. A Statement of Accuracy (SOA) report must be obtained.

In Batch Standalone the Statement of Accuracy report is available from the Reports menu after you have cleaned your Canada addresses. The report includes an accuracy percentage calculated according to the Canada Post validation rules.

### Expiry

SOA reports are valid for 12 months from the date of production.

## Search Examples: Batch Interactive

For information about the best methods for searching on Canada addresses using Batch Interactive please refer to Single Line search examples on [page 10](#) and Typedown search examples on [page 9](#).

## Configuration File Settings

The Batch Configuration File will support the following additional settings:

- CorrectAApiLoc ([page 26](#))
- CorrectADataLocCAN ([page 26](#))

## CorrectAApiLoc

Format:

```
CorrectAApiLoc={path}
```

Default:

Must be explicitly set.

Purpose:

This setting is required for USA or CAN data. The setting specifies the location of the certified address matching engine supplied on the supplementary USA or CAN Batch data disk (Windows) or separately (UNIX). You must ensure that {path} is the location of the directory containing "CorrectA.dll" (Windows) or the "libCorrectA " shared object file (UNIX).

You do not need to use this setting if the CorrectA library is in the same location as your core Batch API libraries.

Example:

If the certified address matching engine was copied to the /Data/USA directory, you would use the following setting:

```
CorrectAApiLoc=/Data/USA
```

## CorrectADataLocCAN

Format:

```
CorrectADataLocCAN={path}
```

Default:

Must be explicitly set.

Purpose:

This setting is only required for CAN data. It specifies the location of the supplementary CAN Batch data files. The setting will be set by the installation program on the CAN Batch data disk. If you are a UNIX user or copy the data files manually, you must ensure that {path} is the location of the parent directory containing the data files.

Example:

If the supplementary CAN Batch data was copied to the /Data/CAN directory, you would use the following setting:

```
CorrectADataLocCAN=/Data/CAN
```