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# **Data Guide**

**Canada**

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# Introduction

## Canada Address Data Information

Dataset Code:	CAN
Approximate Data Size:	QAS Pro: 90MB QAS Pro Web: 90MB QAS Batch: 240MB
Data Source:	Canada Post Corporation / Société canadienne des postes and Prism Data Services
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.



# About This Data

This chapter provides detailed information about the CAN dataset.

## Area Covered

The CAN dataset covers all streets and Postal Code<sup>OM</sup>s 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
Submitted PO Box**	Case postale 6185	B13
Submitted General Delivery**	PR	B14
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

Address Element	Example	Element Code
Municipality	KINGSTON	L31
Delivery installation name	STN MAIN	L41
Delivery installation qualifier name and type	Succ Bureau-Chef	L51
Postal Code <sup>OM</sup>	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 QAS Batch output address formats only. See "PO Box, General Delivery and Province Variations" on page 20 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 Jardin, 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 'Jardin'. 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. For example:

M4B 1G5

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 QAS 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 addresses.

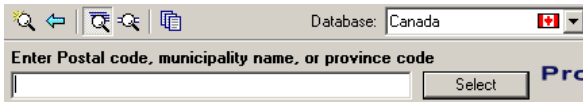
# Using This Data

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



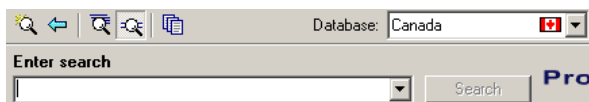
The following table provides a list of these example search types:

- Full address known;
- Postal Code<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>, <b>m1k2t9</b>, and press <b>Enter</b>.</li><li>2. Enter the premises number, <b>89</b>, and press <b>Enter</b>.</li><li>3. The correct address is returned: 89 Ranstone Gdns SCARBOROUGH ON M1K 2T9</li></ol>

Search type	Example
Postal Code <sup>OM</sup> not known	<ol style="list-style-type: none"> <li>1. Enter the location, <b>vancouver</b>, and press <b>Enter</b>.</li> <li>2. Enter the first four letters of the street name, <b>traf</b>, and press <b>Enter</b>. In this example <b>traf</b> is enough to uniquely identify <b>Trafalgar Street</b> as there are no other places in Vancouver starting with "Traf".</li> <li>3. Enter the premises number, <b>4135</b>, and press <b>Enter</b>.</li> <li>4. The correct address is returned:  4135 Trafalgar St  VANCOUVER BC V6L 3C6</li> </ol>
PO box number known	<ol style="list-style-type: none"> <li>1. Enter the Postal Code<sup>OM</sup>, <b>m5x1b1</b>, and press <b>Enter</b>.</li> <li>2. Enter the first four letters of the company name, <b>prim</b>, and press <b>Enter</b>.</li> <li>3. The correct address is returned:  PO Box 55 Stn 1st Can Place  TORONTO ON M5X 1B1</li> </ol>
Company name known	<ol style="list-style-type: none"> <li>1. Enter the location, <b>calgary</b>, and press <b>Enter</b>.</li> <li>2. Enter the PO Box number, <b>55</b>, and press <b>Enter</b>.</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	<p>Enter the premises number followed by the Postal Code<sup>OM</sup>:</p> <p><b>138,m4a2b7</b></p> <p>The correct address is returned: 138 Sloane Ave NORTH YORK ON M4A 2B7</p>
Postal Code <sup>OM</sup> not known	<p>If the Postal Code<sup>OM</sup> is not known, enter the premises number and street name followed by the locality:</p> <p><b>108 london rd,newmarket</b></p> <p>The correct address is returned: 108 London Rd NEWMARKET ON L3Y 6A7</p>
Only street name known	<p>If only the street name only is known, entering it will return a picklist from which the correct one can be selected.</p> <p>Enter <b>giles rd</b> to view a list of every street named "Giles Road" in the country.</p>
Character missing from address	<p>If a character is missing from the address it can be replaced with a question mark.</p> <p>Enter <b>1032,a?shire dr,burnaby</b> and the correct address is returned: 1032 Ayshire Dr BURNABY BC V5A 4A1</p>
Address contains spelling mistake	<p>Entering an address that contains one or more spelling errors can still return the correct address.</p> <p>Entering <b>77 tinsley ave,scarborough</b> will still return the correct address: 77 Tansley Ave SCARBOROUGH ON M1J 1P4</p>

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 <b>44 high st,et*</b> 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 QAS Pro know which part of the address it is. For a list of available search constraints, see below. Searching on <b>high st,on@c</b> tells QAS Pro to display a picklist of "High Street"s 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 QAS Pro or QAS Batch Interactive.

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

## With QAS Pro Web

### Scenarios

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

Scenario	Search engine	For search examples, see:
Address Capture on the Intranet	Single Line hierarchical	Single Line search examples on page 8.

Scenario	Search engine	For search examples, see:
Address Capture on the Web	Single Line flattened	Single Line search examples on page 8.
Address Verification on the Web	Verification	Verification search examples on page 11.
Address Capture	Single Line flattened	Single Line search examples on page 8.
Address Verification	Verification	Verification search examples on page 11.
Single Line	Single Line hierarchical	Single Line search examples on page 8.
Standard	Typedown Single Line hierarchical	Typedown examples on page 7. Single Line search examples on page 8.
ActiveX Control	Typedown Single Line hierarchical	Typedown examples on page 7. Single Line search examples on page 8.

## 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.

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

Verify level	Example
Verified	<p><b>825 Dusseault Crt Yellowknife NT X1A 2Z4</b></p> <p>This search brings back a verified address with the verify level of "Verified".</p>
Multiple	<p><b>14 Arnold Ave ON</b></p> <p>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.</p>

<b>Verify level</b>	<b>Example</b>
None	<p><b>NoStreet</b> <b>NoTown</b></p> <p>This search brings back a verify level of "None" as the address does not exist in the data.</p>
StreetPartial	<p><b>38th Ave W</b> <b>Vancouver</b> <b>BC</b> <b>V6M 1R9</b></p> <p>This search brings back a verify level of "StreetPartial" because the premise or building information was not specified.</p>
PremisesPartial	<p><b>351 Saguenay Dr</b> <b>Saskatoon</b> <b>ON</b> <b>S7K 5T4</b></p> <p>This search brings back a verify level of "PremisesPartial" as there is more than one apartment at the address.</p>
InteractionRequired	<p><b>151 David Rd</b> <b>Nepean</b> <b>ON</b> <b>K2G</b></p> <p>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.</p>

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

## **Additional Features**

	<b>For more information...</b>
Retention Of Unmatched Text	See page 13
Matching Flags	See page 14
Configuration File Settings	See page 19

## Retention Of Unmatched Text

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

---

### U11 Retained subpremise

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 Retained Secondary Number

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 recognisable 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 19).

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

## Matching Flags

Canada matching flags are only available with QAS 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 the following values:

0	False
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 USA verification engine:

### 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:

<b>Input address:</b>	<b>Output address:</b>
General Hospital 1 Hospital Way VICTORIA BC V8Z 6R5	<b>Victoria</b> 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:

<b>Input address:</b>	<b>Output address:</b>
Videotron rue Jean-Perrin QUÉBEC QC G2C 1S4	Videotron <b>2200</b> 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:

<b>Input Street</b>	<b>Output Street</b>	<b>Flag Set</b>
1 Main Street	1 Main <b>St</b>	0
1 North Main St	1 <b>N</b> Main S	0
1 Maine St	1 <b>Main</b> St	1
1 Main Rd	1 Main <b>St</b>	1

### Route Service has been matched

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

Example:

<b>Input address:</b>	<b>Output address:</b>
29221 Flat Rock Rd <b>RR 6</b> DRESDEN ON N0P 1M0	29221 Flat Rock Rd <b>RR 6</b> 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:

<b>Input address:</b>	<b>Output address:</b>
10 Rolland Rd TORONTO ON M4G 1V5	10 Rolland Rd <b>EAST YORK</b> ON M4G 1V5

### Municipality name has been alias matched

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

Example:

<b>Input address:</b>	<b>Output address:</b>
30 Weston Rd WESTON ON M6N 3P4	30 Weston Rd <b>TORONTO</b> 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:

<b>Input address:</b>	<b>Output address:</b>
40 Claude Rd FRENCHVALE B2A 4C8	40 Claude Rd FRENCHVALE <b>NS</b> 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:

<b>Input address:</b>	<b>Output address:</b>
9 Brookview Cres SUSSEX NB	9 Brookview Cres SUSSEX NB <b>E4E 2H6</b>

Example 2:

<b>Input address:</b>	<b>Output address:</b>
9 Brookview Cres SUSSEX NB B2B 2H6	9 Brookview Cres SUSSEX NB <b>E4E</b> 2H6

### Subpremise has been retained

This flag indicates that the output address contains unmatched subpremise information.

Example:

<b>Input address:</b>	<b>Output address:</b>
<b>Apt 6</b> 115 Tweed Cres LONDON ON N5X 1Z5	115 Tweed Cres <b>Apt 6</b> 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:

<b>Input address:</b>	<b>Output address:</b>
<b>6</b> -115 Tweed Cres LONDON ON N5X 1Z5	<b>6</b> -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:

<b>Input address:</b>	<b>Output address:</b>
<b>Attn: Legal</b> 210 ch Porter ULVERTON QC J0B 2B0	<b>Attn: Legal</b> 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:

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

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

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

## Configuration File Settings

The following setting should appear in each relevant address layout of the QAS Pro Web configuration file, qawserve.ini. For more information about configuration settings, refer to the QAS Pro Web 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 13.

#### Example:

```
CANUseExtendedRetention=FALSE
```

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

## With QAS Batch

QAS Batch incorporates the Dr Q x-sys address correction engine from Prism Data Services in both the Standalone and API products. This allows QAS 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.

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 QAS Batch, see page 25.

## 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 3 for a complete list of address elements and codes.

### PO Box, General Delivery and Province Variations

By default, Batch returns PO Box information in the form "PO Box {number}". If your input database contains PO Box information in the forms "Case Postale" or "CP" you can retain these forms in the output data by using the alternative Submitted PO Box (B13) element in your Canada output layout.

If your input database contains General Delivery information in the forms "General Delivery", "Poste Restante", or "PR" you can retain these forms in the output data using the alternative Submitted General Delivery (B14) element in your Canada output layout.

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 3.

## Dataset-Specific Input Field Types

When you are configuring a QAS Batch session, you can specify the address elements which are contained in your input fields. 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 following table describes the input field types that you can specify for CAN data, and the address elements QAS 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 QAS 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 subpremises
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

Item	Field Contains
Sub-building number	Sub-premises number or range
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 QAS 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

Information Bit	Description
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
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 page 5)
00000010	FSU changed (see page 5)
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 *rCountryInfo1*, and from the function **QABatchWV\_Clean** in the parameter *rsReturnCode* from the 21st to 28th characters.

Refer to the QAS 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
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 page 20.
00000100	RR or LVR address corrected. For more information see page 20.
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 QAS 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 QAS Batch Interactive please refer to Single Line search examples on page 8 and Typedown search examples on page 7.

