

# Location Based Address Standard

<b>Identification</b>	<b>Name:</b>	Location Based Address Standard		
	<b>Number:</b>	CIO-11-017		
	<b>Date:</b>	2012-11-22		
<b>Governance Committee Review</b>	<b>Strategies:</b> <input type="checkbox"/>	<b>Risk:</b> <input type="checkbox"/>	<b>Standard:</b> <input checked="" type="checkbox"/>	
<b>Standard Lifecycle Stage</b>	<input type="checkbox"/> <b>Identified</b>	<input type="checkbox"/> <b>Initiated</b>	<input type="checkbox"/> <b>Declared</b>	<input checked="" type="checkbox"/> <b>Active</b>
	<input type="checkbox"/> <b>Deprecated</b>	<input type="checkbox"/> <b>Retired</b>	<input type="checkbox"/> <b>Pilot/Trial</b>	
<b>Description</b>				
<p>Location Based Addressing can associate a structure or place with a geographic location on the ground. Location Based Addressing is core to government organizations that provide and manage address information for their clients and is a critical resource for decision making. Some 80% of government's data holdings can be linked to a location based address.</p> <p>Defining a standard for Location Based Addressing will optimize the sharing of this authoritative data, enable data connectivity opportunities across many business areas, allow for increased complex decision making by tying most government data to a location, eliminate enormous duplication of effort in maintaining this information, reduce opportunities for error and improve overall currency of data.</p> <p>The Data model for this Location Based Address standard is based upon the constructs of 14 specific fields of information. Appendix A outlines the details related to these fields. Appendix B provides a taxonomy for this same standard.</p>				
<b>Enabling Services</b>				
<p>The following services support adoption of this standard:</p> <ul style="list-style-type: none"> <li>• Service Nova Scotia and Municipal Relations, through it delivery of the Nova Scotia Civic Address Program, provides business support and technical operations for a corporate dataset that emulates this proposed standard. <ul style="list-style-type: none"> <li>• The NSCAF program has a database that includes the 14 fields noted in this standard. It should be noted however the NSACF database has an additional 60+ fields of associated information to help manage the integrity of its database.</li> <li>• Existing NSCAF infrastructure, web and desktop applications/services, web viewers (public and secure) and support documentation.</li> <li>• Through well-established partnerships, many stakeholder organizations help to maintain the accuracy and currency of the NSCAF database.</li> </ul> </li> </ul>				
<b>Restrictions</b>				
<p>The following restrictions apply to the Location Based Address Standard:</p> <ul style="list-style-type: none"> <li>• The data model is not modifiable. It is defined at a corporate level through a managed process, and can only be altered at the corporate level, not at a departmental level. Departments who extend the model independently risk non-compliance with the standard.</li> <li>• Partial compliance with this standard can be accomplished by using the data in the NSCAF database and its associated service offerings.</li> </ul>				
<b>Exceptions</b>				
<p>The following are conditions that may exempt an organization from compliance with this standard:</p> <ul style="list-style-type: none"> <li>• Existing systems, both COTS and custom are grandfathered under this standard.</li> </ul>				

- Systems with 'addresses' which are based on historical information or actual documents, not physical locations (e.g. traffic ticket as written by a police officer must be recorded as is)
- Systems where the data cannot conform due to business (i.e. legislation, regulations or policy) limitations or restrictions.

**Follow-up**



The following relates to follow-up so as to ensure proper use of and compliance with this standard:

- All new enhanced or custom development will require a design signoff from CIO's Enterprise Architecture team to ensure full or partial compliance to the standard.
- COTS purchases will be assess in part on how they comply with the standard.

**Notes on the Standard**

The NSCAF database includes all known, valid addresses in Nova Scotia. While it meets the data model framework noted in this Location Based Address standard and is currently available and its use is encouraged, it is not currently part of this standard.

**Acceptance and Sign-off**

Prepared By:	Name: Nancy Saunders Title: Director, Geographic Information Services	 (signature)	NOV 28/2012 (date)
Approved By:	Name: Holly Fancy Title: Chief Information Officer	 (signature)	NOV. 30. 2012 (date)

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# Appendix A

June 2012

Appendix A identifies the data model that is to be considered the standard for Location Based Addressing for Nova Scotia. The ID's are unique keys that are critical to maintain when an organization wants to retrieve updates and map these to their internal tables. The Core attributes are components of an address string that form a Location Based Address. If all components are not consumed, there are situations where duplicate addresses can exist.

## Location Based Addressing Data Model

	Full Field Name	Field Size	Field Description
<b>ATTRIBUTES</b>	Civic Number	Number(10)	The civic number assigned to the address point. Typically, a single civic number will be stored for each Pnt_Tab record. However, multiple civics can be related to a single point.
	Civic Suffix	VarChar2(6Bytes)	
	Unit Number	VarChar2(4 Bytes)	Individual identifiers assigned to multiple units on a single structure, or to separate structures on one property. It can be alphanumeric.
	Street Prefix	VarChar2(7 Bytes)	Typically used to hold the French street type for French street names. (See Street Prefix/Suffix List for coding options for this field).
	Street Name	VarChar2(40 Bytes)	Stores the proper name for the road. Any part of a name appearing before the Street Type will be considered part of the proper name. See bottom of this table for an example.
	Street Suffix	VarChar2(7 Bytes)	Typically used to hold the English street type. (See Street Prefix/Suffix List for coding options for this field).
	Street Direction	VarChar2(7 Bytes)	The component of a street name typically indicates direction. Only direction information coming after the Street Type will be stored in this field. See bottom of this table for an example. (See DIR_LUT for coding options for this field).
	Community	VarChar2(40 Bytes)	Provides the name of the area. If the name appears in the Gazetteer the name here will reflect the Gazetteer's spelling.
	Municipality	VarChar2(25 Bytes)	Stores the name for a municipal unit. (See MUN_LUT for coding options).
	County	VarChar2(20 Bytes)	Stores the name for a county. (See CO_LUT for coding options).

	Postal Code	VarChar2(6 Bytes)	The postal code for the civic address (A1A 1A1 form).
ID'S	Civic Number ID	Number(10)	Individual identifiers assigned to multiple units on a single structure, or to separate structures on one property. It can be alphanumeric.
	Civic Point ID	Number(10)	Primary nine digit key to link to the Pnt_Tab. Keys are assigned provincially for new entities, although legacy keys (constructed by concatenating the GSA_KEY and a sequential number) are used for older entities.
	Property ID	Number(10)	Identifies the PID associated with the civic number / unit number for linking to the NSPRD.

# Appendix B

June 2012

Appendix B identifies the look-up tables and their values that are used with the data model and to be considered the standard for Location Based Addressing for Nova Scotia.

## Location Based Addressing Look-up tables and their values

### Counties

County Code	County Name
AP	Annapolis County
AT	Antigonish County
CB	Cape Breton County
CO	Colchester County
CU	Cumberland County
DI	Digby County
GU	Guysborough County
HX	Halifax County
IN	Inverness County
KI	Kings County
LU	Lunenburg County
PI	Pictou County
QU	Queens County
RI	Richmond County
SH	Shelburne County
VI	Victoria County
YA	Yarmouth County
HN	Hants County

### Municipalities

MUN CODE	Municipal Name	Short Name
CB	Cape Breton Regional Municipality	CBRM
HX	Halifax Regional Municipality	HRM
AP	Municipality of the County of Annapolis	Annapolis County
AT	Municipality of the County of Antigonish	Antigonish County
CO	Municipality of the County of Colchester	Colchester County
CU	Municipality of the County of Cumberland	Cumberland County
IN	Municipality of the County of Inverness	Inverness County
KI	Municipality of the County of Kings	Kings County
PI	Municipality of the County of Pictou	Pictou County
RI	Municipality of the County of Richmond	Richmond County
VI	Municipality of the County of Victoria	Victoria County

AY	Municipality of the District of Argyle	Argyle District
BA	Municipality of the District of Barrington	Barrington District
CT	Municipality of the District of Chester	Chester District
CL	Municipality of the District of Clare	Clare District
DI	Municipality of the District of Digby	Digby District
EH	Municipality of the District of East Hants	East Hants District
GU	Municipality of the District of Guysborough	Guysborough District
LU	Municipality of the District of Lunenburg	Lunenburg District
SH	Municipality of the District of Shelburne	Shelburne District
SM	Municipality of the District of St. Mary's	St. Mary's District
WH	Municipality of the District of West Hants	West Hants District
YA	Municipality of the District of Yarmouth	Yarmouth District
QU	Region of Queens Municipality	Queens Region
AM	Town of Amherst	Amherst
AR	Town of Annapolis Royal	Annapolis Royal
AS	Town of Antigonish	Antigonish
BE	Town of Berwick	Berwick
BT	Town of Bridgetown	Bridgetown
BW	Town of Bridgewater	Bridgewater
CH	Town of Clark's Harbour	Clark's Harbour
DG	Town of Digby	Digby
HP	Town of Hantsport	Hantsport
KE	Town of Kentville	Kentville
LO	Town of Lockeport	Lockeport
LN	Town of Lunenburg	Lunenburg
MB	Town of Mahone Bay	Mahone Bay
MI	Town of Middleton	Middleton
MU	Town of Mulgrave	Mulgrave
NG	Town of New Glasgow	New Glasgow
OX	Town of Oxford	Oxford
PA	Town of Parrsboro	Parrsboro
PC	Town of Pictou	Pictou
PH	Town of Port Hawkesbury	Port Hawkesbury
SB	Town of Shelburne	Shelburne
SP	Town of Springhill	Springhill
SL	Town of Stellarton	Stellarton
SW	Town of Stewiacke	Stewiacke
TN	Town of Trenton	Trenton
TU	Town of Truro	Truro
WE	Town of Westville	Westville
WI	Town of Windsor	Windsor
WO	Town of Wolfville	Wolfville
YM	Town of Yarmouth	Yarmouth
IR	Indian Reserve	Indian Reserve

### Street Prefix/Suffix List

Note:

The Status field Identifies that a street Prefix/suffix are either a Legacy or Current status. The Status field Identifies that street Legacy values are historical and are not to be used when new road names are assigned. Current values are accepted and widely used by various organizations. There currently are no validation rules in place to enforce this.

The Origin Description field identifies if it's an English or French prefix/suffix and the Origin determines if it's a street prefix (1) or suffix (2).

Street Type	Full Name	Status	Origin	Origin Description
Abbey	Abbey	Legacy	1	English
Acres	Acres	Legacy	1	English
Allee	Allee	Current	2	French
Alley	Alley	Current	1	English
Aut	Autoroute	Legacy	2	French
Ave	Avenue	Current	1	English
Awti	Awti	Current	1	English
Awti'j	Awti'j	Current	1	English
Bay	Bay	Legacy	1	English
Beach	Beach	Legacy	1	English
Bend	Bend	Legacy	1	English
Bl	Bluff	Legacy	1	English
Bld	Boulevard	Current	1	English
Br	Branch	Legacy	1	English
Bypass	Bypass	Current	1	English
Byway	Byway	Current	1	English
Campus	Campus	Legacy	1	English
Cape	Cape	Legacy	1	English
Carre	Carre	Legacy	2	French
Carref	Carrefour	Legacy	2	French
Cds	Cul-De-Sac	Legacy	1	English
Cercle	Cercle	Current	2	French
Chase	Chase	Legacy	1	English
Chemin	Chemin	Current	2	French
Cir	Circle	Current	1	English
Circuit	Circuit	Legacy	1	English
Close	Close	Current	1	English
Cnr	Corner	Current	2	English
Common	Common	Legacy	1	English
Concess	Concession	Legacy	1	English
Conn	Connector	Legacy	1	English
Cote	Cote	Legacy	2	French
Cour	Cour	Current	1	English
Cours	Cours	Current	1	English
Cove	Cove	Legacy	1	English
Cres	Crescent	Current	1	English
Crest	Crest	Legacy	1	English
Crnrs	Corners	Legacy	1	English
Crois	Croissant	Current	2	French
Cross	Cross	Legacy	1	English
Crossng	Crossing	Legacy	1	English
Crossrd	Cross Road	Legacy	1	English
Crsover	Crossover	Legacy	1	English
Crt	Court	Current	1	English
Ctr	Centre	Legacy	1	English
Cut	Cut	Legacy	1	English
Dale	Dale	Legacy	1	English
Dell	Dell	Legacy	1	English
Divers	Diversion	Legacy	1	English
Downs	Downs	Legacy	1	English
Dr	Drive	Current	1	English
East	East	Legacy	1	English
Eastbnd	East Bound	Legacy	1	English
Échangeur	Échangeur	Current	1	English
End	End	Legacy	1	English

Esp	Esplande	Legacy	2	French
Esplanade	Esplanade	Current	1	English
Est	Estate	Legacy	1	English
Ests	Estates	Legacy	1	English
Exch	Echange	Legacy	2	French
Exit	Exit	Legacy	1	English
Expy	Expressway	Legacy	1	English
Exten	Extension	Legacy	1	English
Farm	Farm	Legacy	1	English
Field	Field	Legacy	1	English
Forest	Forest	Legacy	1	English
Freeway	Freeway	Legacy	1	English
Front	Front	Current	1	English
Gate	Gate	Legacy	1	English
Gdn	Garden	Legacy	1	English
Gdns	Gardens	Legacy	1	English
Glade	Glade	Legacy	1	English
Glen	Glen	Legacy	1	English
Green	Green	Legacy	1	English
Grnd	Ground	Legacy	1	English
Grnds	Grounds	Legacy	1	English
Grove	Grove	Legacy	1	English
Harbr	Harbour	Legacy	1	English
Haven	Haven	Legacy	1	English
Hdwy	Hideaway	Legacy	1	English
Heath	Heath	Current	1	English
Hghlds	Highlands	Legacy	1	English
Hill	Hill	Legacy	1	English
Hollow	Hollow	Legacy	1	English
Hts	Heights	Legacy	1	English
Hwy	Highway	Legacy	1	English
Ile	Ile	Legacy	2	French
Impasse	Impasse	Legacy	2	French
Inlet	Inlet	Current	1	English
Intchg	Interchange	Legacy	1	English
Intrv	Intervale	Legacy	2	French
Island	Island	Legacy	1	English
Jcnctn	Junction	Legacy	1	English
Key	Key	Legacy	1	English
Knoll	Knoll	Legacy	1	English
Landing	Landing	Legacy	1	English
Lane	Lane	Current	1	English
Line	Line	Current	1	English
Link	Link	Legacy	1	English
Lkout	Lookout	Legacy	1	English
Lmts	Limits	Legacy	1	English
Lnkwy	Linkway	Legacy	1	English
Loop	Loop	Current	1	English
Mall	Mall	Legacy	1	English
Manor	Manor	Legacy	1	English
Maze	Maze	Legacy	1	English
Meadow	Meadow	Legacy	1	English
MEws	Mews	Legacy	1	English
Mnte	Montee	Legacy	2	French
Moor	Moor	Legacy	1	English
Mount	Mount	Legacy	1	English
Mtn	Mountain	Legacy	1	English



North	North	Legacy	1	English
Northbd	North Bound	Legacy	1	English
Oldrte	Old Route	Legacy	1	English
Orchard	Orchard	Legacy	1	English
Other	Other	Legacy	1	English
Parade	Parade	Legacy	1	English
Parc	Parc	Legacy	2	French
Park	Park	Legacy	1	English
Pass	Pass	Legacy	1	English
Passage	Passage	Legacy	1	English
Path	Path	Legacy	1	English
Pike	Pike	Legacy	1	English
Pines	Pines	Legacy	1	English
Pky	Parkway	Current	1	English
Pl	Place	Current	1	English
Plateau	Plateau	Current	1	English
Plaza	Plaza	Legacy	1	English
Pointe	Pointe	Current	1	English
Port	Port	Legacy	1	English
Pr	Promenade	Legacy	2	French
Pt	Point	Legacy	1	English
Ptway	Pathway	Legacy	1	English
Pvt	Private	Legacy	1	English
Quai	Quai	Current	1	English
Quay	Quay	Legacy	1	English
Ramp	Ramp	Legacy	1	English
Rang	Rang	Current	1	English
Rd	Road	Current	1	English
Rdfrk	Road Fork	Legacy	1	English
Rest	Rest	Legacy	1	English
Rg	Range	Legacy	1	English
Rgtaway	Right-A-Way	Legacy	1	English
Ridge	Ridge	Legacy	1	English
Rise	Rise	Legacy	1	English
Row	Row	Current	1	English
R-pt	Rond-point	Legacy	1	English
Rte	Route	Legacy	1	English
Rue	Rue	Current	2	French
Ruel	Ruelle	Current	2	French
Run	Run	Current	1	English
Sent	Sentier	Legacy	2	French
South	South	Legacy	1	English
Southbd	South Bound	Legacy	1	English
Spur	Spur	Legacy	1	English
Sq	Square	Legacy	1	English
St	Street	Current	1	English
Subdiv	Subdivision	Legacy	1	English
Terr	Terrace	Current	1	English
Thicket	Thicket	Legacy	1	English
Towers	Towers	Current	1	English
Trail	Trail	Legacy	1	English
Trnabt	Turnabout	Legacy	1	English
Trunk	Trunk	Legacy	1	English
Tsse	Terrasse	Current	2	French
Twnln	Townline	Legacy	1	English
Vale	Vale	Legacy	2	French

Via	Via	Legacy	1	English
View	View	Legacy	1	English
Village	Village	Legacy	1	English
Villas	Villas	Current	1	English
Vista	Vista	Legacy	1	English
Voie	Voie	Current	1	English
Wa	Water Access	Current	1	English
Walk	Walk	Legacy	1	English
Way	Way	Current	1	English
West	West	Legacy	1	English
Westbd	West Bound	Legacy	1	English
Wharf	Wharf	Legacy	1	English
Wood	Wood	Legacy	1	English
Woods	Woods	Legacy	1	English
Wynd	Wynd	Legacy	1	English
	(Blank)	Current	1	English

### Street Direction List

Code	Direction
Access	Access
FK	Fork
E	East
W	West
S	South
N	North
NE	Northeast
NW	Northwest
SE	Southeast
SW	Southwest
Branch	Branch
Exten	Extension
SB	South Bound
WB	West Bound
NB	North Bound
EB	East Bound
IB	inbound
OB	Outbound