

**Land Information Ontario**

# **LIO Warehouse Common Tables**

Restructuring Recommendations

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## Table of Contents

<b>Disclaimer</b> .....	<b>3</b>
<i>Additional Information</i> .....	3
<b>1 Executive Summary</b> .....	<b>4</b>
<b>2 Introduction</b> .....	<b>6</b>
2.1 <i>About this project</i> .....	6
2.2 <i>Assumptions</i> .....	6
2.3 <i>Issues Out of Scope for this Review</i> .....	6
2.4 <i>Previous Analysis Work and Reports</i> .....	7
2.5 <i>Model Redesign Challenge</i> .....	7
<b>3 Analysis and Recommendations</b> .....	<b>8</b>
3.1 <i>Analysis Approach</i> .....	8
3.2 <i>Data Model Attribute Naming Convention</i> .....	8
3.3 <i>Issues Addressed</i> .....	8
3.3.1 <b>MNR's Sensitive Data Classification Policy Requirement</b> .....	8
3.3.2 <b>Personal Information Access issues in both NRVIS and OLIW</b> .....	11
3.3.3 <b>Simplified Source Table</b> .....	15
3.3.4 <b>Add a Supporting Materials Table</b> .....	17
3.3.5 <b>Add an Other Information table</b> .....	17
3.3.6 <b>Discontinue Fire Detail as a common table</b> .....	18
3.3.7 <b>Discontinue Plan as a common table</b> .....	19
3.3.8 <b>Discontinue Alias as a common table</b> .....	19
3.3.9 <b>Discontinue Site Access Method as a common table</b> .....	20
<b>4 References</b> .....	<b>21</b>
<b>5 Appendices</b> .....	<b>22</b>
5.1 <i>Workshops</i> .....	22
5.2 <i>Current OLIW Physical Model Diagram (Common Tables SNIF Report)</i> .....	23
5.3 <i>Proposed Common Tables – Logical Model - Business View</i> .....	25
5.4 <i>Proposed Common Tables – Logical Model - Design View</i> .....	42
5.5 <i>Current vs Proposed Common Tables – Mapping of Tables and Attributes</i> .....	61
5.6 <i>Privacy Impact Report – Recommendations &amp; Listing of Affected Data Classes</i> .....	82
5.7 <i>Personal Information Tables – Proposed Data standards Guidelines</i> .....	87
<b>6 Addendum</b> .....	<b>116</b>

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## 1 Executive Summary

The OLIW/NRVIS common tables have been in place for some years. They were designed to foster enhanced data sharing and integration among data classes. As well, they provided a common place to capture metadata in the Ontario Land Information Warehouse (OLIW) and NRVIS. Changing legislative and user requirements created a need to review the relevance of the common tables structure used by various clients.

The Common Tables were reviewed by the Information Management Policy & Standards Coordination Section (IMPSC) during user workshops conducted in the Fall of 2005, May 2006 and input from prior reviews. Findings from these workshops were translated into a simpler, but at the same time enhanced, common tables data model. This report provides the blueprint for a new common table model. In addition, various transition considerations are provided in this report.

The following changes were made in the current Common Table model:

1. Implementation of MNR's policy regarding data classification  
The current NRVIS and OLIW model flags data as sensitive (Yes or No). The new model has four categories: High, Medium, Low and Non Sensitive.

2. Provide adequate protection of personal information in OLIW and NRVIS  
The current model is not FIPPA (Freedom of Information and protection of Privacy Act) compliant. The OLIW can restrict access to personal information, such as name and role, and name and address which are currently in the common tables but NRVIS cannot. In addition, the current personal information lacks details defining under what authority the data is collected, the reason for collecting, the allowable uses of the data and who can have access to it.

The new model calls for removal of personal information captured in the common tables by storing it in an external database or by capturing it in a secure table attached to the business model. The new model provides an opportunity to link (through the Geog Unit Party table) to an external personal information database. This report provides data modelling guidelines for designing future personal information tables compliant with FIPPA, Government of Ontario Information Technology Standards (GO-ITS) and Land & Resources Cluster (LRC) standards.

3. Simplify tables capturing source information about the data  
The new model reduces document and source observation data from four separate tables into one table, called Source. The internal and external source tables are reduced from two to one, called Database Reference. This will simplify data entry and query navigation.

4. Add a Supporting Materials Table  
The new model provides a convenient link from the spatial object to documents, pictures, sounds, video providing more information on a spatial object.

#### 5. Add an Other Information Table

This new table is designed to provide a place to capture information on a spatial object for which there is no other place to put it in the current business model. This table provides much needed short term flexibility to the business area. This data could eventually be incorporated into the business model in the future.

#### 6. Remove little-used tables, attach only when required

In the new model Fire Detail, Plan, Group, Address, Site Access Method and Alias Name tables are removed and will be incorporated into the business model when required.

#### 7. Changes to the Geographic Unit table

In the new model, the Geographic Unit has undergone several changes and should be reviewed in detail. Highlights of changes include the removal of the Native Indicator and the splitting of System Calculated Metric into System Calculated Length and System Calculated Area.

## 2 Introduction

### 2.1 About this project

A number of initiatives within the Ontario Public Service (OPS) over the last few years, mandated changes to the Ontario Land Information Warehouse (OLIW) core data model design that was implemented some years ago. These include the following drivers:

- Freedom of Information and Personal Privacy Act (FIPPA)
- Information Classification for handling sensitive data
- OPS emerging data standards
  - Common Data Element Model (CDEM) for Privacy and Security Concerns
  - Government of Ontario IT Standards (GO-ITS) for Party and Party Contact, and Address.
  - The Land and Resources Cluster Conceptual Data Model (LRC CDM)

In addition a number of user-driven changes created the need for change. These include

- User Friendliness. It has become apparent that the Source table does not serve users well. It is cumbersome and confusing to enter data. Users, in the past, generally entered a new source rather than finding one to reuse amongst the 3 million plus entries. There are 90,000 entries alone for Ontario Base Map (OBM) as a source.
- Adjust the model to reflect current business needs

This report provides a blueprint for a more relevant and enhanced Common Tables model serving the spatial data capture and distribution of data in OLIW and NRVIS.

### 2.2 Assumptions

The Common Table models used by the OLIW and NRVIS are essentially the same. There are some physical model differences because of the two implementation platforms but the differences for the purpose of this report are considered inconsequential. The OLIW physical model (Common Tables SNIF report) has been used as a starting point for the re-design. (See Appendix 5.2)

### 2.3 Issues Out of Scope for this Review

The implementation of changes in NRVIS and LIO is out of scope. This report provides some transition scenarios, where appropriate, however, a separate report will be needed to document the transition changes needed for the current OLIW and NRVIS model. The effect these changes will have on current applications in OLIW, NRVIS and external databases and data providers must be considered in the implementation report.

### 2.4 Previous Analysis Work and Reports

Various reports were used in this analysis. Some of the major references are listed in References.

## 2.5 Model Redesign Challenge

The challenge for the model re-design was to make the model simpler to use, but at the same time incorporate required legislative, data standard and data user suggested changes. Incorporation of all these changes had the potential to make the model more complex. The model proposed in this report tries to strike an appropriate balance.

## 3 Analysis and Recommendations

### 3.1 Analysis Approach

The common table restructuring is based on previous analysis work completed between 2003 and 2005 and three additional workshops conducted in the fall of 2005 to gather input on user needs and requirements.

Based on the findings from the first set of workshops, a draft model was prepared for an internal review by the data analysts and the OLIV/NRVIS implementation team members in April 06. The revised draft model was subsequently reviewed by stakeholders consisting of implementation team members, data access team members, data providers and data users from OPS ministries and private industry through another set of workshops. A final draft was completed for the OLIV/NRVIS implementation team by the beginning of June 2006.

The original model diagram for the OLIV is captured in Appendix 5.2. This is the OLIV Common tables SNIF report diagram and data dictionary. The proposed logical model – “business view” model is captured in Appendix 5.3 and the proposed logical model – “design view” is captured in Appendix 5.4. The design view bears the closest resemblance with the physical model to be implemented in NRVIS and OLIV. Appendix 5.5 captures the mapping of the current tables and attributes in OLIV to the new model tables and attributes. This allows users to see which fields are no longer being carried.

### 3.2 Data Model Attribute Naming Convention

In order to track the attributes in the new draft model the following naming convention was used in the proposed model:

- New attributes, not in the modeling tool SE are prefixed with CT space Attribute Name in UPPER CASE. (CT A NEW ATTRIBUTE)
- Existing attributes in SE, but undergoing a change of any kind (i.e. length) are prefixed with CT. (CT A Changing Attribute)
- Existing attributes in SE, not undergoing any change, are used as is. (An Existing Attribute)

### 3.3 Issues Addressed

The following section will address each issue by stating the issue, options (where appropriate), recommendation, and transition considerations on how to migrate the current data to the new structure.

#### 3.3.1 MNR's Sensitive Data Classification Policy Requirement

##### Issue

A new Information Classification protocol has been in place in the OPS since May 2004. Under the context of the Policy:

- The Data Custodian is responsible for assigning the Information Sensitivity Classification (High, Medium, Low, Non Sensitive)

- The Concrete Class or GUT will be given this classification
- Objects within the dataset will default to this classification
- Users will be able to change the classification at the **object** level, but must give a reason why they are changing the classification

Currently features are classified as sensitive by the data class, by GUT (usually Vulnerable, Threatened and Endangered (VTE) species. A more recent term is Species At Risk (SAR)) or by individual feature at the discretion of the party doing data entry. Individual features are classified as sensitive (Yes/No) in the Geog Unit table, but the rationale for why a feature is sensitive is not captured. Denial of access to these features can be challenged under FIPPA. For instance: Forest Roads in Algonquin Park data are not accessible to the general public while roads in general are.

### Options Considered

While information is recognized as sensitive in the present model, the way it is currently recorded (with a Yes/No) does not satisfy the Information Classification Policy. Keeping status quo is therefore not an option. It provides inadequate distribution and access control for both OLIV and NRVIS.

### Recommendation

An interpretation of the "Policy for the Management of Classified Data in the Ontario Land Information Warehouse, May 2004" (See Reference 8) suggests the following fields would satisfy requirements:

Name	Type	Length	Mandatory/Optional
Sensitivity Class*	String	15	Mandatory
Sensitivity Date	Date	--	Mandatory
Sensitivity Rationale*	String	50	Mandatory
Other Rationale Description	String	250	Optional
Data Sensitivity Indicator **	String	3	Mandatory

\* Pick list available

\*\*The current Data Sensitivity Indicator (Yes/No) will eventually be removed.

#### Attribute Descriptions:

- Sensitivity Class
  - Values: High, Medium, Low, Non Sensitive
    - High sensitivity is used for information or material assets that are extremely sensitive and are intended for use by named individuals (positions) only. This category refers to information that could have negative impacts on human life or health, if released. Currently there are no data classes in OLIV/NRVIS that fit into this category.
    - Medium sensitivity is used for information or material assets that are sensitive within the OPS, are intended for use only by specified groups of employees and approved agents of the Crown. In the context of

OLIW/NRVIS, this refers to information where the entire data type has been flagged in the database as sensitive. Examples are Stick Nests for Vulnerable, Threatened or Endangered Species.

- Low sensitivity is an information or material asset that is generally available to employees and approved agents of the Crown but not to the general public. In the context of OLIW/NRVIS, this category refers to sensitive features within a data type that are not normally sensitive. An example would be specific occurrences of Pileated Woodpecker nests. In most parts of the province, these would not be tagged as sensitive, however, there are locations where these are deemed to be a greater concern, and are therefore, tagged as sensitive by the local maintainer.
- Non Sensitive data and information that does not fall into any of the three sensitivity levels, evaluated against each of the criteria below “How to Determine the Sensitivity Level of Classification”, should be labeled “non-sensitive”. This is information that if disclosed, for example, will not result in any injury to individuals, government or private sector institutions. An example of non-sensitive data would be MNR’s base data layers.
- Sensitivity Rationale
  - The primary reason for the object’s information sensitivity classification
  - Values: "VTE Species", "Data provider agreement", "No restriction needed" (for Non Sensitive data), "Protect feature type", "Protect single feature", "Legislative or legal reqt", "Other".
- Other Rationale Description -
  - To explain a Classification Rationale when “Other” is selected as the Sensitivity Rationale.
- Sensitivity Date
  - The date that the sensitivity classification was established

In the physical model this information will be captured in Geog Unit. See Appendix 5.4 for a description of the attributes.

### Transition Considerations

The Geog Unit table will contain the above four new attributes, replacing the Data Sensitivity Indicator (Yes/No).

### Suggested Data Entry Rules around Information Classification (Reference 4)

- Every feature has a classification; it defaults to "Non Sensitive" if no classification is assigned
- Classification Rationale must always be entered: it defaults to "No restrictions needed"
- If "Other" is entered as a rationale, it must be described in Other Rationale Description
- A custodian can define a default sensitivity of the data class that will be enforced.
- "VTE Species", "Data Provider Agreement", "Protect feature type", "Legislative or legal reqt" applies to data classes and GUTs of medium sensitivity.
- "Data Provider Agreement", "Protect single feature", "Legislative or legal reqt" and "Other" applies to individual features of low sensitivity.

- A user can change the data sensitivity rating up or down for an object, but they will need to provide a rationale.

The existing Data Sensitivity Indicator (Yes/No) will be carried in the new model, to be phased out at a later date. It is still required in the interim for certain applications.

### 3.3.2 Personal Information Access issues in both NRVIS and OLIW

#### Issue

The NRVIS 3.0 project triggered the need to ensure that data shared through OLIW and/or NRVIS with other OPS and non-OPS clients adhered to the Freedom of Information and Protection of Privacy Act (FIPPA) guidelines. The present model does not address this issue.

A 2003 Privacy Impact Assessment (PIA) Report completed by Chartwell Inc for the Ministry of Natural Resources (Reference 10) reports that from a privacy perspective, there appears to be one entity (Individual) in the Common Tables where a person, particularly a non-MNR staff, could be identified by name and details such as telephone number and address recorded within NRVIS. This individual is also associated with a feature class (i.e. campground, bird Nesting Area).

Out of the 9 recommendations made in the PIA (See Appendix 5.6 for a listing of recommendations), the following are being addressed in the new model.

Recommendation 3 - Develop comprehensive security and privacy policies and procedures that relate to NRVIS. Specifically, consideration should be given to recording the authority and intent/use of personal information in the "Role Description Field" within NRVIS. This documentation will serve as a warning that the rights of individuals need to be protected under the authority granted for the collection and dissemination of personal information.

Recommendation 9 - Develop the capacity to set access controls to the various user classes to enable appropriate access to PI within the NRVIS environment. Specifically, consideration should be given to developing appropriate security access controls that would limit a NRVIS user from accessing personal information where they do not have the authority, or where the intent / use of personal information is not consistent with the guidelines under which personal information is collected or to be disseminated. Such security access controls would determine the type of user (i.e. Field Collection Staff Person for a specific Feature Class, General NRVIS User, Non-OPS User, etc.) and allow / disallow access to personal information depending on their authority to collect, use and disseminate personal information.

According to the PIA report the Individual and Role tables contain approximately 16 data classes with about 16,000 records (most are found in 4 classes – Bear Management Area, Climate Station, Research Plot, and Trapline Area). According to FIPPA rules NRVIS & OLIW must stop unauthorized access to personal information. See Appendix 5.6 for a breakdown of affected data classes (taken from Reference 10)

OLIW currently has the capability to turn off access to Role and Individual tables. NRVIS does not. This issue is being addressed in the new common table model.

## Options Considered

### i. Continue status quo

- Breaks FIPPA rules (i.e. reason why the information is collected is not captured; do not know who can use the information, uncontrolled access in NRVIS)

### ii. Implement data collection and access restrictions for common tables (see table below)

- Assign access restrictions in NRVIS and OLIV – In place in OLIV, difficult to do in NRVIS.
- Capture the Collection Reason, Use and Access for this data as a reminder to the business area on how to use this data (not currently captured in OLIV or NRVIS)

<b>Name</b>	<b>Type</b>	<b>Length</b>	<b>Mandatory/Optional</b>
Notice of PI Collection Provided to Client (Yes/No)	String	10	Optional
Jurisdiction Name	String	30	Optional
Authority Type*	String	20	Optional
Authority Title	String	255	Optional
Start Date	Date	--	Optional
End Date	Date	--	Optional
Modified Date	Date	--	Optional
Net Address Text	String	255	Optional
Description	String	2000	Optional
PI Collection Reason*	String	100	Optional
PI Use*	String	100	Optional
Reason Start Date	Date	36	Optional
Reason End Date	Date	36	Optional
Person Collecting PI**	String	TBD	TBD
Person Allowed to Access PI**	String	TBD	TBD

\* Pick list available

\*\* Suggested attributes, not confirmed

For a more detailed description of these proposed fields, refer to Appendix 5.7

OLIW will be able to control access to INDIVIDUAL and related tables, such as Address, but NRVIS is not able to do the same. This is not acceptable under FIPPA rules.

### iii. Discontinue storing personal information in NRVIS and OLIV Common Tables – Recommended Option

- Transition PI out of common tables and into a database, external to OLIW and NRVIS
- Provide a NRVIS/OLIW link to external database via the Geog Unit Party table in the new model
- Rationale
  - The majority of current PI in the address tables is not spatially referenced and therefore not required to be included in NRVIS and LIO.
  - It is technically complex to implement option #2 in NRVIS because we:
    - Must be able to track access and uses of PI so that individuals can be informed on how their PI has been used by MNR (#7 Recommendation PIA report)
    - Must be able to control access so that NRVIS users without authority to PI are blocked (#9 Recommendation PIA report)
    - Provide block usage of PI where the intent/use of PI is not consistent under the collection guidelines (#9 Recommendation PIA report)
  - Potentially costly to implement option #2 in NRVIS

Because the OLIW and NRVIS models are so closely tied together, any changes to the NRVIS model will need to be mirrored in the OLIW model.

### Transition Considerations

Using the current model as a starting point, all tables beyond Role are removed in the new model. These tables include Individual, Group and associated Address tables. The following scenarios are envisaged:

#### A) For existing data classes

- Ensure that personal information contained in the Individual, Group, and Address tables are archived prior to removal from NRVIS and OLIW.
- To deal with personal information two routes are suggested:
  - Point the existing data class to an external source for the PI, via the new Geog Unit Party table. NRVIS & OLIW will provide guidance on creating a database for storing personal information (GO-ITS and other standards). See Appendix 5.7 for proposed PI table standards. This moves the responsibility for the protection of personal information to the maintainer of the database.
  - If attaching personal information (names and addresses) to the business model, design a “secure” personal information table, attached directly to the business class, capturing the reason and uses for the personal information. The secure table will ensure that editing and browsing privileges can be controlled at the user level in both OLIW and NRVIS

The proposed PI attributes should be added to any personal information tables that are developed (including names and addresses), see table mentioned in Option ii above. See also Appendix 5.7 Personal Information tables for more detail.

## B) For new data classes

Two routes are suggested:

- Point the data class to an external source for the PI information (including address information), via the Geog Unit Party table, or
- If including personal information (names and addresses) in the business model, design a “secure” personal information table, attached directly to the business class, capturing the reason and uses for the personal information. (See Appendix 4.8 for guidelines). The secure table will ensure that editing and browsing privileges can be controlled at a person level in both OLIW and NRVIS.

### **Concerning the Group table (now called Organization) information in common tables**

Group information (Company Name) and attached address information is not considered personal information. We could keep this information in the model, however we recommend removing it from the model because these tables are used very little. We recommend attaching this information directly to the business model, if appropriate.

### **Concerning Address Information**

Several OLIW and NRVIS data models contain address information, attached directly to the business model. Appendix 4.8 provides suggested Address data standards based on the latest GO-ITS standards. Business areas, when modeling their address information will be strongly encouraged to follow these standards to enable future data sharing. Note that these recommended standards are in line with the Land and Resources Cluster (LRC) standards.

### **Comments on other PI assessment recommendations**

Recommendation 6 suggests refining the process of data management modeling to introduce a privacy review stage. This is being implemented by the IMPSC section and Information Access section so that before a new data class is finalized, the model will be reviewed by Information Access, if it contains private information.

Custodians maintaining the database outside of the system should be trained on PI issues.

The other recommendations identified in the NRVIS Privacy and Impact Assessment Report should be addressed by the Implementation Team and documented in their Implementation Report.

### **3.3.3 Simplified Source Table**

#### **Issues**

Source has a number of issues as it currently exists:

- Material Reference tables are too complex
  - A number of fields were never used
  - Users found it very difficult to query and to properly enter the information. It may be necessary to enter information into 4 separate tables to capture all required information.
- External Reference is used for several functions:
  - To store a name for the source
  - To store a reference to a record in an external database
  - To store digital map sources
- Source Observation usually has few optional fields populated
  - Source Item Provided Date is 96% null
  - Source Item Observation Date is 83% null
  - General Description is 74% null
  - Location Description is 60% null
- Internal Reference is rarely used

## Options considered

### i. Continue Status Quo

This is not recommended. The mandate for this review is to make the model easier to use.

### ii. Simplify the model and adjust it to user needs – Recommended Option

The new model reduces the current source tables from five tables to two tables. In other words, Source Reference, Source Reference Detail, Material Reference, Source Method, and Source Observation tables are now merged into two tables, one called Source providing a restricted number of Source Names, simplifying data entry. Additional information on the source or source method used is captured in the second (intersection) table called Geographic Unit and Source. It has been expanded to contain attributes, previously contained in the Source tables. Refer to Appendix 5.4 for the new Source table information and to Appendix 5.5 for attributes dropped from the old model.

SOURCE Table

Name	Type	Length	Mandatory/Optional
Source Name	String	100	Mandatory
Source Identifier	String	25	Optional
Source Type	String	30	Mandatory
Source Date	Date	--	Optional
Source Originator	String	75	Optional
Scale Or Resolution	String	15	Optional
Horizontal Datum	String	10	Optional
Vertical Datum	String	30	Optional
Projection Name	String	40	Optional

GEOG UNIT AND SOURCE Table

Source Detail	String	255	Optional
Observation Date	Date	Date	Optional
Confidence Level	String	1	Mandatory
Confidence Level Comments	String	2000	Optional
Source Applicability	String	20	Optional
Method Name	String	100	Optional
Method Description	String	2000	Optional
Source Description	String	2000	Optional

The new model combines the current Internal and External tables into a new table called Database Reference. Refer to Appendix 5.4 for the new Database Reference table information and to Appendix 5.5 for attributes not used from the old model in the new model. Note that this new table is directly connected to an object (Geog Unit) instead of having to go through an intersection table. This should speed up data maintenance and access.

DATABASE REFERENCE Table

Name	Type	Length	Mandatory/Optional
Internal External Flag	String	10	Mandatory
Database Reference Identifier	String	50	Mandatory
Concrete Class Short Name	String	8	Optional
External Reference Type	String	8	Optional
Type Other Description	String	60	Optional
Database Reference Detail	String	2000	Optional

### 3.3.4 Add a Supporting Materials Table

#### Issue

There is a need to provide a more direct link to documents, pictures, sounds and video, which provide more information on an object in the database.

#### Recommendation

A new table has been added called Supporting Material. It is attached via an intersection table to Geog Unit to resolve the many-to-many relationship.

SUPPORTING MATERIAL Table

Name	Type	Length	Mandatory/Optional
Material Name	String	200	Mandatory
Material Location	String	200	Mandatory
URL English	String	500	Optional
URL French	String	500	Optional

See Appendix 5.4 for more details

### 3.3.5 Add an Other Information table

#### Issue

The “Other Information” table is intended to provide users a home for required local-needs-type of information. The current common tables model does not have this capability.

#### Recommendation

Add a new entity called Other Information with an optional relationship with Geog Unit. This table will be analyzed periodically to determine if a field should be incorporated into the regular class structure. This should help eliminate improper use of this table over time.

OTHER INFORMATION Table

Name	Type	Length	Mandatory/Optional
Field name	String	30	Mandatory
Field Type	String	8	Mandatory
Field Value String	String	50	Optional
Field Value Integer	Integer	5	Optional
Field Value Double	Numeric	10.3	Optional

See Appendix 5.4 for additional details.

### 3.3.6 Discontinue Fire Detail as a common table

#### Issue

The Fire Detail table appears little used and of limited value. This was mentioned at the workshops. This table was designed to capture structural values (buildings etc) to be used by fire fighting teams in determining building values in the path of a forest fire. Data has become inconsistent, incomplete and is not maintained. Fire detail information is not used by the MNR fire management program. It is used by a limited number of data classes. Total count of records in the current Fire Detail Table: 9876 (out of 28,750,524 records in OLIW= .03% of all records in OLIW).

FIRE DETAIL Table

Name	Type	Length	Mandatory/Optional
Dollar Value	String	1	Optional
Fire Risk Level	String	1	Optional
Fuel Class	String	3	Optional

See Appendix 5.4 for additional details.

#### Recommendation

Attach table only for data classes requiring the capture of this data.

#### Transition Considerations

1. Attach Fire Detail table only to business classes requiring table.
2. For remaining data classes archive Fire Detail data. The implementation plan should address the communications of these changes.

### 3.3.7 Discontinue Plan as a common table

#### Issue

Plan table is seldom used (only 54 records used by Forest Management Unit data class).

PLAN Table

Name	Type	Length	Mandatory/Optional
Plan Identifier	String	75	Mandatory
Plan Type	String	50	Mandatory
Plan Start Date	String	11	Optional
Plan Expiry Date	String	11	Optional
Location Description	String	2000	Optional
Objectives	String	2000	Optional
Comments Medium	String	2000	Optional

See Appendix 5.4 for additional details.

#### Recommendation

Attach table only to data classes requiring the capture of this data.

#### Transition Considerations

Classes affected include Forest Management Unit and Dam Inspection. The implementation plan should address the communications of these changes.

### 3.3.8 Discontinue Alias as a common table

#### Issue

Alias table is not used by most data classes.

ALIAS NAME Table

Name	Type	Length	Mandatory/Optional
Local Name	String	75	Mandatory
Primary Name Indicator	String	3	Mandatory

See Appendix 5.4 for additional details.

#### Recommendation

Attach table only to data classes requiring the capture of this data.

#### Transition Considerations

On a go forward basis Alias Name should only be used for aliases. Authorized/official names should be carried in the specific data class. This will be a phased approach.

### 3.3.9 Discontinue Site Access Method as a common table

#### Issue

Site Access Method table is not used by most data classes.

#### SITE ACCESS METHOD Table

Name	Type	Length	Mandatory/Optional
Site Access Method	String	20	Mandatory

See Appendix 5.4 for additional details.

#### Recommendation

Attach table only to data classes requiring the capture of this data.

#### Transition Considerations

None.

## 4 References

Below is a list of references used in the design of the new model. The numbering refers to data analysis team internal numbering system used during the analysis phase.

Ref #	Name
1	<a href="#">Common Tables SNIF report</a> V1; Current physical data model in OLIW
4	Common Table Changes, Slide Show, May 2004 Land & Resources Data Administration Section, MNR, Anne Trudell, Data Architect.
8	<a href="#">Draft Policy for the Management of Classified Data</a> in the Ontario Land Information Warehouse, MNR. Prepared by Information Access Section, Science and Information Resources Division, May 2004.
10	NRVIS 3.0 project – Privacy Impact Assessment Report by Chartwell Inc, 2003
16	Project Charter - Common Table Restructuring Project, Sept 28, 2005 Land Information Ontario, Program Management Office
17a	Personal Information According to FIPPA (Ontario Government Act). Policy Draft prepared by Information Management Section, MNR. 2005
17b	Policy for the Management of Classified Data in the OLIW (MNR Policy). Policy Draft prepared by Information Management Section, MNR. 2005
22a	Information Standard for Address Specification using Government of Ontario CDE Schema Version 2.0 ( <a href="#">GO-ITS Document #27.1</a> )
22a1	Address GO-ITS vs Current Common Table Standards Comparison, Nov 2005
22b	Information Standard for Party and Party Contact Specification using Government of Ontario CDE XML Schema ( <a href="#">GO-ITS Document#27.2</a> )
23	OLIW/NRVIS Common Table Structure – A Proposal for a Revised Model, Ministry of Natural Resources, Kevin Casselman, Sept 3, 2004
26a	LRC Conceptual Data Model (CDM), Presentation to ACT, Oct 18, 2005
30	Common Data Element Model – Privacy and Security; Corporate Architecture & Standards Branch, Office of the Corporate Chief Technology Officer, Ministry of Government Services, Government of Ontario, © Queen's Printer for Ontario, 2005

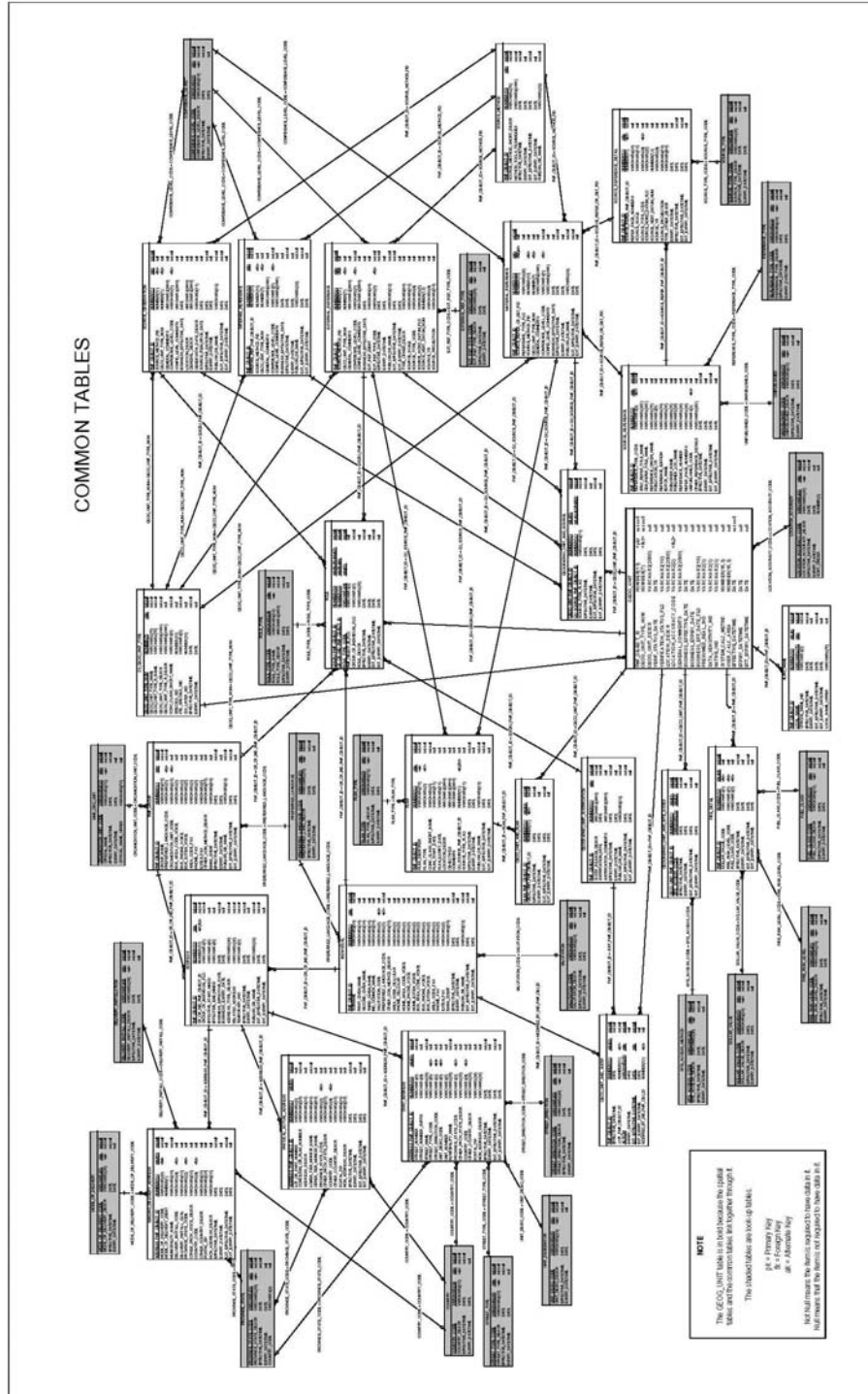
## **5 Appendices**

### **5.1 Workshops**

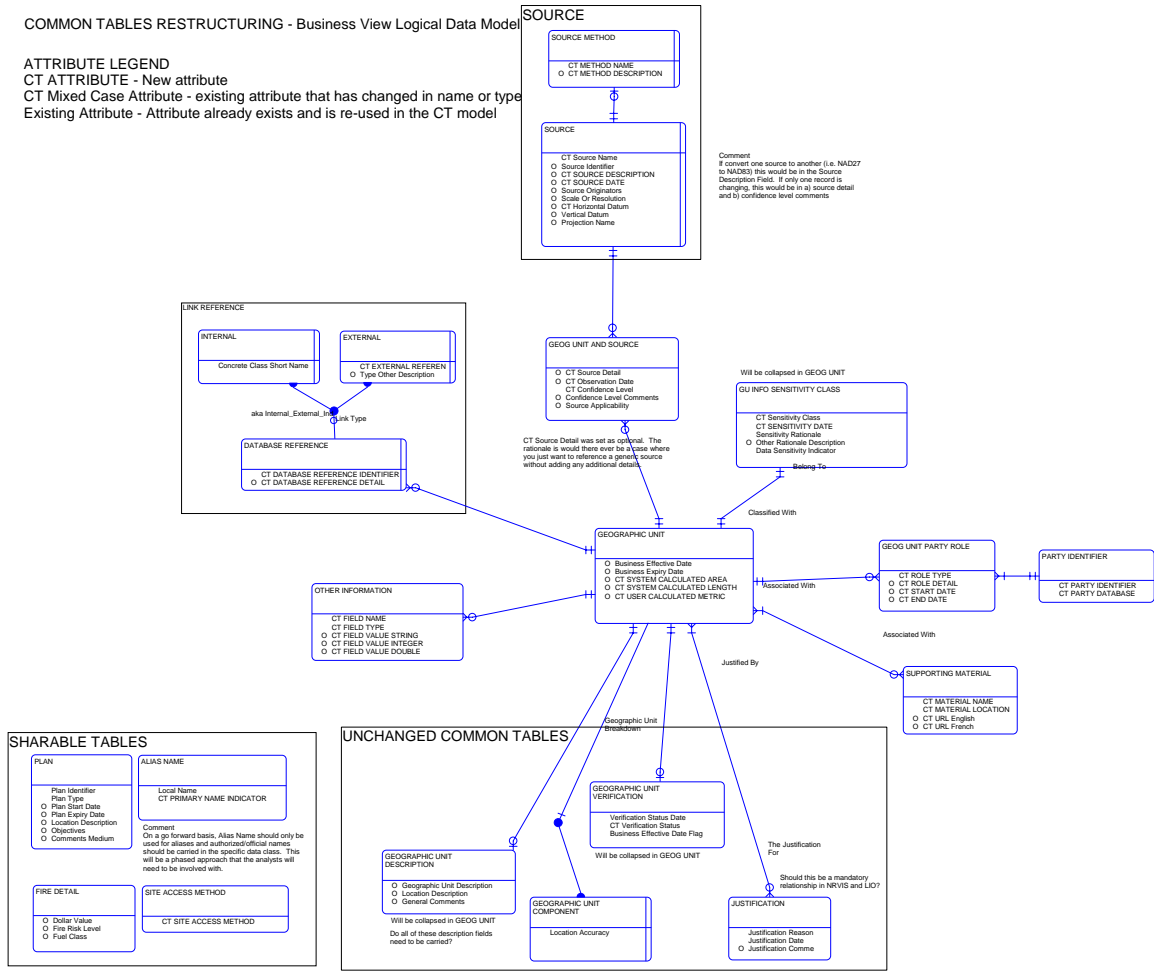
Two sets of workshops were conducted. The first set elicited requirements, the second set reviewed the proposed data model. Both sets of workshops were attended by data analysts, representatives from the OLIW/NRVIS implementation team and members of the Information Access section, who provided advice on data sensitivity and personal information (FIPPA) concerns.

### 5.2 Current OLIW Physical Model Diagram (Common Tables SNIF Report).

For a full data dictionary listing use the [SNIF Report - OPS Intranet Link](#) to the Online Document Management System (ODMS)



### 5.3 Proposed Common Tables – Logical Model - Business View



#### Entity : ALIAS NAME

##### Description :

Location name for the geographic unit.

Only one primary local name is allowed per area. Other local names are alias names.

##### Local Name

Local name of geographic unit.

Character (variable length string)

75

Mandatory

##### Class : Name

##### CT PRIMARY NAME INDICATOR

Indication of whether this is the primary local or common name.

Character (variable length string)

3

Mandatory

##### Class : Indicator

##### Permissible Values :

'Yes','No'

**Entity : DATABASE REFERENCE****Description :**

A link to an external database or an internal object in the same database.

CT DATABASE REFERENCE IDENTIFIER Character (variable length string) 50 Mandatory  
Identifier of a reference that is linked e.g. Land Use Permit Number, LIS Number, the FMF Object ID of a Concrete Class.

**Class :** Business Identifier

CT DATABASE REFERENCE DETAIL Character (variable length string) 2000 Optional  
Details on the rationale, use, dependency, or comments on the database reference. If a dependence on other data class geometry exists, this can be identified in this field.

**Class :** Description

Each DATABASE REFERENCE Must be One and only one GEOGRAPHIC UNIT(s). Exclusive :

**Entity : EXTERNAL****Description :**

Link to an external source that is not in the LIO warehouse or NRVIS.

CT EXTERNAL REFERENCE TYPE Character (variable length string) 8 Mandatory  
The type of external database that the identifier pertains to e.g. LUPS, LIS, etc.

**Class :** Description

Type Other Description Character (variable length string) 60 Optional  
A full description of the type when set to "other".

**Class :** Code Description

**Subtype Of** DATABASE REFERENCE

**Entity : FIRE DETAIL****Description :**

Attributes, required by the Fire Management Program, that may be applicable to any geographic unit.

Dollar Value Character (variable length string) 1 Optional  
Estimated dollar value of the geographic unit.

**Class :** Code  
*Valid values in NRVIS\_DOLLAR\_VALUE.*

Fire Risk Level Character (variable length string) 1 Optional  
 Fire risk factor of geographic unit e.g. high, medium, low.

**Class :** Code  
*Valid values in NRVIS\_FIRE\_RISK\_LEVEL.*

Fuel Class Character (variable length string) 3 Optional  
 The forest fire danger rating fuel class, as defined by the Canadian Forest Fire Behavior Prediction System, for the area in and around the feature e.g. immature jack pine, leafless aspen, grass.

**Class :** Code  
*Valid values in NRVIS\_FUEL\_CLASS.*

## Entity : GEOG UNIT AND SOURCE

**Description :**  
 Intersection table between Geog Unit and Source.

CT Source Detail Character (variable length string) 255 Optional  
 What part of the source pertains to the feature. Examples: Summary data from a data base, pages in a book or atlas, figure number and page from a publication, a section of a map, record in a database.

**Class :** Description

CT Observation Date Character (variable length string) 14 Optional  
 The year, year/month, year/month/day or year/month/day/hour/minute/second that the species was most recently observed in the geographic unit.

**Class :** Character Date

CT Confidence Level Character (variable length string) 1 Mandatory  
 The level of confidence in the person/techniques/methods used in collecting the observation data. Possible confidence levels include H (high), M (medium), or L (low).

**Class :** Code  
**Permissible Values :**  
 'H','M','L'

Confidence Level Comments Character (variable length string) 2000 Optional  
 Comments related to the confidence level.

**Class :** Description

Source Applicability Character (variable length string) 20 Optional  
 How the source contributes to the feature's definition.

**Class :** Description  
**Permissible Values :**  
 'Spatial','Tabular','Spatial/Tabular'

Each GEOG UNIT AND SOURCE Must be One and only one GEOGRAPHIC UNIT(s). Exclusive :

Each GEOG UNIT AND SOURCE Must be One and only one SOURCE(s). Exclusive :

## Entity : GEOG UNIT PARTY ROLE

### Description :

An association between a Party and a Role to signify that this Party plays this specific role.

<u>CT ROLE TYPE</u>	Character (variable length string)	50	Mandatory
The role that an organization or an individual plays.			

**Class :** Description

<u>CT ROLE DETAIL</u>	Character (variable length string)	200	Optional
Further qualification of a role type in relation to a geographic unit or source i.e. the role type of Owner may be further qualified by the description "Property".			

**Class :** Description

<u>CT START DATE</u>	Date	Optional
The date when a Party starts to play a Role.		

**Class :** Date

<u>CT END DATE</u>	Date	Optional
The date when a Party ceases to play a Role.		

**Class :** Date

Each GEOG UNIT PARTY ROLE Must be One or more PARTY IDENTIFIER(s). Exclusive :

Each GEOG UNIT PARTY ROLE Must be One and only one GEOGRAPHIC UNIT(s). Exclusive :

## Entity : GEOGRAPHIC UNIT

### Description :

A bounded geographic area of a specified type. A thing of interest to the Ministry that has spatial characteristics (i.e. location represented by a point, line or polygon) and requires supporting evidence (GEOGRAPHIC UNIT SOURCE ITEM) and justification (GEOGRAPHIC UNIT JUSTIFICATION) for its creation and major changes.

<u>Business Effective Date</u>	Date	Optional
Date that the record becomes effective in relation to the business i.e. the date MNR became aware of its existence.		

**Class :** Date

Business Expiry Date Date Optional  
A date indicating when the record was determined to be invalid.

**Class :** Date

CT SYSTEM CALCULATED AREA Decimal 16 3 Optional  
The area of a polygon measured in square metres by the system.

**Class :** Measurement

CT SYSTEM CALCULATED LENGTH Decimal 16 3 Optional  
The perimeter of a polygon or length of a line measured in metres.

**Class :** Measurement

CT USER CALCULATED METRIC Decimal 16 3 Optional  
The length, perimeter or area of an object in metres or square metres as measured or provided by the user.

**Class :** Measurement

Each GEOGRAPHIC UNIT May be One and only one GEOGRAPHIC UNIT DESCRIPTION(s). Exclusive :

Each GEOGRAPHIC UNIT May be One and only one GEOGRAPHIC UNIT VERIFICATION(s). Exclusive :

Each GEOGRAPHIC UNIT May be One or more OTHER INFORMATION(s). Exclusive :

Each GEOGRAPHIC UNIT May be One or more DATABASE REFERENCE(s). Exclusive :

Each GEOGRAPHIC UNIT May be One or more GEOG UNIT PARTY ROLE(s). Exclusive :

Each GEOGRAPHIC UNIT May be Associated With One or more SUPPORTING MATERIAL(s). Exclusive :

Each GEOGRAPHIC UNIT Must be Classified With One and only one GU INFO SENSITIVITY CLASS(s). Exclusive :

Each GEOGRAPHIC UNIT May be Justified By One or more JUSTIFICATION(s). Exclusive :

Each GEOGRAPHIC UNIT May be One or more GEOG UNIT AND SOURCE(s). Exclusive :

## Entity : GEOGRAPHIC UNIT COMPONENT

### Description :

A Geographic Unit that may be included in a Geographic Unit Consolidation.

Location Accuracy Character (variable length string) 2 Mandatory  
The degree of conformity or closeness of a measurement within the database to its true value in the world.

**Class :** Code

*Valid values in NRVIS\_LOCATION\_ACCURACY.*

**Subtype Of** GEOGRAPHIC UNIT

## Entity : GEOGRAPHIC UNIT DESCRIPTION

**Description :**

General descriptions and comment about the geographic unit and its location.

<u>Geographic Unit Description</u>	Character (variable length string)	2000	Optional
Detailed description of the Geographic Unit.			

**Class :** Description

<u>Location Description</u>	Character (variable length string)	2000	Optional
Description of the area or directions on how to get to the site.			

**Class :** Description

<u>General Comments</u>	Character (variable length string)	2000	Optional
Unstructured description, additional notes, or further explanation of long length.			

**Class :** Description

Each GEOGRAPHIC UNIT DESCRIPTION Must be One and only one GEOGRAPHIC UNIT(s). Exclusive :

**Entity : GEOGRAPHIC UNIT VERIFICATION****Description :**

Verification and business date attributes pertaining to a geographic unit.

<u>Verification Status Date</u>	Date	Mandatory
Date that the geographic unit was verified/validated.		

**Class :** Date

<u>CT Verification Status</u>	Character (variable length string)	10	Mandatory
An indication as to whether a qualified employee has verified the existence of the geographic unit.			

**Class :** Flag

**Permissible Values :**

'Verified', 'Unverified'

<u>Business Effective Date Flag</u>	Character (variable length string)	10	Mandatory
Indication of whether the business effective date is an actual or estimated value.			

**Class :** Flag

**Permissible Values :**

'Actual', 'Estimated'

Each GEOGRAPHIC UNIT VERIFICATION Must be One and only one GEOGRAPHIC UNIT(s). Exclusive :

**Entity : GU INFO SENSITIVITY CLASS**

**Description :**

The Information sensitivity classification assigned to a Geographic Unit.

CT Sensitivity Class Character (variable length string) 15 Mandatory  
The ranking of the sensitivity of the information embodied in the feature. Often wide-spread knowledge of the location of some rare aspect of our natural heritage will endanger it. On the other hand, this knowledge by some parties is also extremely important for its protection.

High - information that is extremely sensitive and intended for use by named individuals only. Refers to information that could have negative impacts on human life or health if released. Currently no data classes meet this

Medium - information that is sensitive and intended for use only by specified groups of employees and approved agents of the Crown. For OLIV/NRVIS refers to information where the entire data type has been flagged as sensitive (i.e. Stick Nests for Vulnerable Threatened and Endangered (VTE) species)

Low - information generally available to employees and approved agents of the Crown. Refers to sensitive features within a data type not normally sensitive (i.e. specific instances of Pileated Woodpecker)

Non Sensitive - data and information that does not fall into any of the three sensitivity levels. If disclosed will not result in any injury to individuals, government or private sector institutions (i.e. base data)

**Class : Type****Permissible Values :**

'High','Medium','Low','Non-Sensitive'

CT SENSITIVITY DATE Date Mandatory  
The date that the sensitivity classification was established.

**Class : Date**

Sensitivity Rationale Character (variable length string) 50 Mandatory  
The primary reason for the object's information sensitivity classification.

Examples: "VTE Species", "Data provider agreement", "No restriction needed" (for Not Sensitive data), "Protect feature type", "Protect single feature", "Legislative or legal reqt", "Other".

**Class : Description****Permissible Values :**

"VTE Species", "Data Provider Agreement", "No Restriction Needed", "Protect Feature type", "Protect Single Feature", "Legislative or Legal Req", "Other".

Other Rationale Description Character (variable length string) 250 Optional  
Description of the reason(s) for the information classification when "Other" is selected as the rationale.

**Class : Description**

Data Sensitivity Indicator Character (variable length string) 3 Mandatory  
An indication of whether the geographic unit is sensitive.  
This attribute will eventually be removed once all application have been modified to the new attributes.

**Class : Indicator****Permissible Values :**

'Yes','No'

Each GU INFO SENSITIVITY CLASS Must be Belong To One and only one GEOGRAPHIC UNIT(s). Exclusive :

## Entity : INTERNAL

### Description :

Link to an internal database reference that is in either the LIO warehouse or NRVIS.

<u>Concrete Class Short Name</u>	Character (variable length string)	8	Mandatory
Static short name used to uniquely identify a Concrete Class.			

**Class :** Name

**Subtype Of** DATABASE REFERENCE

## Entity : JUSTIFICATION

### Description :

The justification for the addition of or changes to an object.

<u>Justification Reason</u>	Character (variable length string)	2000	Mandatory
Reason for justification of the existence of a GEOGRAPHIC UNIT.			

**Class :** Description

<u>Justification Date</u>	Date	Mandatory
Date that the GEOGRAPHIC UNIT was justified.		

**Class :** Date

<u>Justification Comments</u>	Character (variable length string)	2000	Optional
Comments relating to justification.			

**Class :** Description

Each JUSTIFICATION Must be The Justification For One or more GEOGRAPHIC UNIT(s). Exclusive :

## Entity : OTHER INFORMATION

### Description :

This table allows the NRVIS/LIO users to enter local-needs type of information, currently not captured in the NRVIS or LIO database. The table content will be analysed periodically to determine if the field(s) should be incorporated into the regular data class structure.

<u>CT FIELD NAME</u>	Character (variable length string)	30	Mandatory
The attribute name for the information.			

**Class :** Name

CT FIELD TYPE Character (variable length string) 8 Mandatory  
The type of field.

**Class :** Type  
**Permissible Values :**  
'String','Integer','Double'

CT FIELD VALUE STRING Character (variable length string) 50 Optional  
A field used to store character strings.

**Class :** Description

CT FIELD VALUE INTEGER Integer 5 Optional  
A field used to store integer values (small numbers).

**Class :** Quantity

CT FIELD VALUE DOUBLE Numeric 10 3 Optional  
A field used to store decimal data with up to two decimals.

**Class :** Quantity

Each OTHER INFORMATION Must be One and only one GEOGRAPHIC UNIT(s). Exclusive :

## Entity : PARTY IDENTIFIER

**Description :**  
Identifies the Party that is acting in a specific role.

CT PARTY IDENTIFIER Character (variable length string) 25 Mandatory  
An identifier for a party (group or individual). It should reference an identifier in an external database which would contain further information. The identifier should not contain personal information (i.e. Social Insurance Number, Outdoors Card Number, phone number, name etc.).

**Class :** Identifier

CT PARTY DATABASE Character (variable length string) 100 Mandatory  
The database that contains the party information.

**Class :** Name

Each PARTY IDENTIFIER Must be One and only one GEOG UNIT PARTY ROLE(s). Exclusive :

## Entity : PLAN

**Description :**

An approved document containing information identifying management goals and objectives for a resource or other feature (e.g. aquatic resource area plan, district fisheries management plan, management advisory committee plan, resource management committee plan, municipal official plan etc.). A plan must be associated with an existing object or must have its own boundaries.

Plan Identifier Character (variable length string) 75 Mandatory  
A name or number used to uniquely identify a plan.

**Class** : Business Identifier

Plan Type Character (variable length string) 50 Mandatory  
A list of possible plan types e.g. Waterbody Plan, Aquatic Resource Area Plan, District Fisheries Management Plan, Management Advisory Committee Plan, Resource Management Agreement Plan, Forest Management Plan, Municipal Official Plan, Watershed Plan.

**Class** : Code Description  
*Valid values in NRVIS\_PLAN\_TYPE.*

Plan Start Date Character (variable length string) 11 Optional  
The date the plan was approved for implementation e.g. 19-June-98, June-98, 1998.

**Class** : Character Date

Plan Expiry Date Character (variable length string) 11 Optional  
The date the plan is scheduled to expire.

**Class** : Character Date

Location Description Character (variable length string) 2000 Optional  
Description of the area or directions on how to get to the site.

**Class** : Description

Objectives Character (variable length string) 2000 Optional  
A brief statement describing the goals and objectives.

**Class** : Description

Comments Medium Character (variable length string) 2000 Optional  
Unstructured description, additional notes, or further explanation of medium length.

**Class** : Description

## Entity : SITE ACCESS METHOD

**Description** :  
The method of accessing the geographic unit e.g. Road, Helicopter, Boat, etc.

CT SITE ACCESS METHOD

The method of accessing the geographic unit.

Character (variable length string) 20

Mandatory

**Class :** Code**Permissible Values :**

'Road','Boat','Foot','Float Aircraft','Railroad','Wheeled Aircraft','Helicopter','4X4 Road','ATV Road','Hiking Trail'

**Entity : SOURCE****Description :**

A description of the source information that is the basis for creating or changing information about a geographic unit. It may be an observation, possibly resulting from a field survey or an adhoc report or a reference to a published or unpublished document. A source may have one Source Method.

CT Source Name

The name of the source.

Character (variable length string) 100

Mandatory

**Class :** NameSource Identifier

Identifier for a source.

Character (variable length string) 25

Optional

**Class :** IdentifierCT SOURCE DESCRIPTION

Text providing details about the source.

Character (variable length string) 2000

Optional

**Class :** DescriptionCT SOURCE DATE

The date of the source.

Character (variable length string) 50

Optional

**Class :** DateSource Originators

The originator or author of the source. Includes the author(s) of a book; the originator(s) of a survey or project; Examples : Smith, J.

Smith, J. and Jones, K.

Smith, J., Jones, K. and White, T.

Anon. (where no author identified)

OMNR (where authorship is corporate)

Northwest District (lead and delivered the data collection project)

Character (variable length string) 75

Optional

**Class :** NameScale Or Resolution

The scale of the vector base or aerial photography, the cell resolution of a grid, or the pixel resolution of an image used to record the location of the feature. Examples: For a vector source or aerial photography: 1:10,000 1:20,000 1:250,000. For a grid or imagery source: 1 km, 10 m, 15 seconds.

Character (variable length string) 15

Optional

**Class :** Description

CT Horizontal Datum Character (variable length string) 10 Optional  
Identifies the reference system used for defining the coordinates of points. There are three common horizontal datum systems used in Ontario: NAD83, NAD27, NAD27 with 1974 adjustment. The datum models the shape of the earth.

**Class :** Name  
**Permissible Values :**  
'NAD27','NAD83','NAD27adj74'

Vertical Datum Character (variable length string) 30 Optional  
The zero surface to which elevations or heights are referred is called a vertical datum. Traditionally, surveyors and mapmakers have tried to simplify the task by using the average (or mean) sea level as the definition of zero elevation, because the sea surface is available worldwide. MSL is a close approximation to another surface, defined by gravity, called the geoid, which is the true zero surface for measuring elevations. Example: WGS-84 EGM96 Geoid.

**Class :** Name

Projection Name Character (variable length string) 40 Optional  
The name of a systematic representation of all or part of the surface of the Earth on a plane or developable surface.

**Class :** Name

**Subtype Of** GEOG UNIT AND SOURCE

Each SOURCE May be One and only one SOURCE METHOD(s). Exclusive :

Each SOURCE May be One or more GEOG UNIT AND SOURCE(s). Exclusive :

## Entity : SOURCE METHOD

**Description :**  
Method used in making an observation or otherwise collecting/recording data including techniques and tools used.  
Examples: Visual Ground Observation, Visual Areal Survey, GPS Survey and Land Survey. The data conversion method used may also be captured.

CT METHOD NAME Character (variable length string) 100 Mandatory  
The name of the method used.

**Class :** Name

CT METHOD DESCRIPTION Character (variable length string) 2000 Optional  
The type of method, tools, and techniques used in observing/collecting/recording the Geographic Unit Source. It may also include a URL where users could get further information on the method used.

**Class :** Description

Each SOURCE METHOD Must be One and only one SOURCE(s). Exclusive :

## Entity : SUPPORTING MATERIAL

### Description :

Material (document/file/picture) that provides more information on a spatial object.

CT MATERIAL NAME Character 200 Mandatory  
A name or brief description of the material.

**Class** : Name

CT MATERIAL LOCATION Character (variable length string) 200 Mandatory  
The location where the supporting material is stored. This may be a physical location or a link to a storage location.

**Class** : Description

CT URL English Character (variable length string) 500 Optional  
The address of a computer or a document in English on the Internet that consists of a communications protocol followed by a colon and two slashes (as http://), the identifier of a computer (as www.m-w.com) and usually a path through a directory to a file -- called also universal resource locator.

**Class** : Description

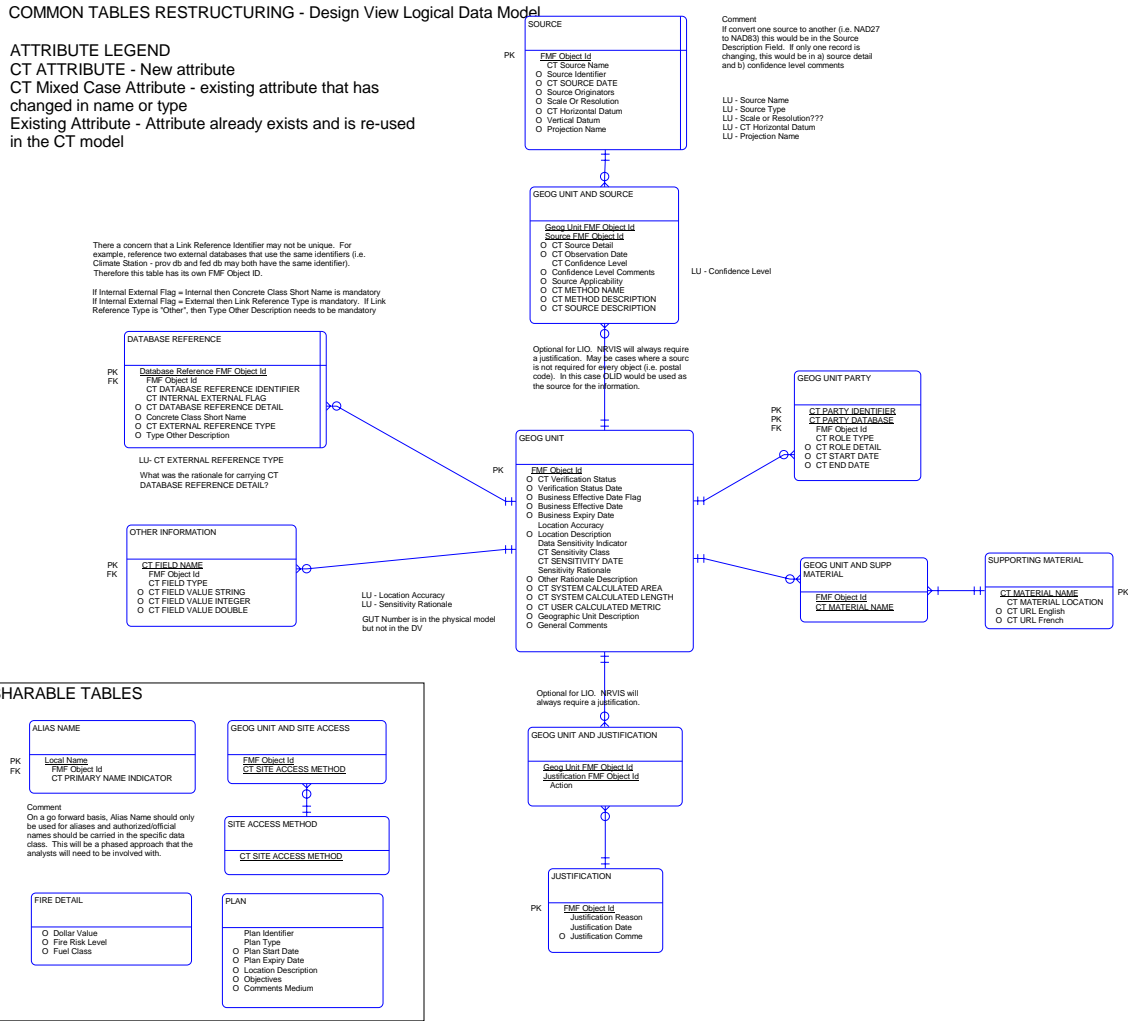
CT URL French Character (variable length string) 500 Optional  
The address of a computer or a document in French on the Internet that consists of a communications protocol followed by a colon and two slashes (as http://), the identifier of a computer (as www.m-w.com) and usually a path through a directory to a file -- called also universal resource locator.

**Class** : Description

Each SUPPORTING MATERIAL Must be Associated With One or more GEOGRAPHIC UNIT(s). Exclusive :

### 5.4 Proposed Common Tables – Logical Model - Design View

The Design View bears the closest resemblance with the physical model to be implemented in OLIW and NRVIS.



#### Entity : ALIAS NAME

**Description :**  
 Location name for the geographic unit.

Only one primary local name is allowed per area. Other local names are alias names.

Local Name  
 Local name of geographic unit.

Character (variable length string) 75 Mandatory

**Class :** Name

FMF Object Id Integer (long) 13 Mandatory  
System generated identifier, unique at the application level.

**Class :** Identifier

CT PRIMARY NAME INDICATOR Character (variable length string) 3 Mandatory  
Indication of whether this is the primary local or common name.

**Class :** Indicator  
**Permissible Values :**  
'Yes','No'

## Entity : DATABASE REFERENCE

**Description :**  
A link to an external database or an internal object in the same database.

Database Reference FMF Object Id Integer (long) 13 Mandatory  
System generated identifier, unique at the application level.

**Class :** Identifier

FMF Object Id Integer (long) 13 Mandatory  
System generated identifier, unique at the application level.

**Class :** Identifier

CT DATABASE REFERENCE IDENTIFIER Character (variable length string) 50 Mandatory  
Identifier of a reference that is linked e.g. Land Use Permit Number, LIS Number, the FMF Object ID of a Concrete Class.

**Class :** Business Identifier

CT INTERNAL EXTERNAL FLAG Character (variable length string) 10 Mandatory  
A flag indicating if the database being referenced is internal (NRVIS/LIO) or external.

**Class :** Flag  
**Permissible Values :**  
'Internal','External'

CT DATABASE REFERENCE DETAIL Character (variable length string) 2000 Optional  
Details on the rationale, use, dependency, or comments on the database reference. If a dependence on other data class geometry exists, this can be identified in this field.

**Class :** Description

Concrete Class Short Name Character (variable length string) 8 Optional  
 Static short name used to uniquely identify a Concrete Class.

**Class :** Name

CT EXTERNAL REFERENCE TYPE Character (variable length string) 8 Optional  
 The type of external database that the identifier pertains to e.g. LUPS, LIS, etc.

**Class :** Description

Type Other Description Character (variable length string) 60 Optional  
 A full description of the type when set to "other".

**Class :** Code Description

Each DATABASE REFERENCE Must be One and only one GEOG UNIT(s). Exclusive :

## Entity : FIRE DETAIL

### Description :

Attributes, required by the Fire Management Program, that may be applicable to any geographic unit.

Dollar Value Character (variable length string) 1 Optional  
 Estimated dollar value of the geographic unit.

**Class :** Code

*Valid values in NRVIS\_DOLLAR\_VALUE.*

Fire Risk Level Character (variable length string) 1 Optional  
 Fire risk factor of geographic unit e.g. high, medium, low.

**Class :** Code

*Valid values in NRVIS\_FIRE\_RISK\_LEVEL.*

Fuel Class Character (variable length string) 3 Optional  
 The forest fire danger rating fuel class, as defined by the Canadian Forest Fire Behavior Prediction System, for the area in and around the feature e.g. immature jack pine, leafless aspen, grass.

**Class :** Code

*Valid values in NRVIS\_FUEL\_CLASS.*

## Entity : GEOG UNIT

### Description :

A bounded geographic area of a specified type. A thing of interest to the Ministry that has spatial characteristics (i.e. location represented by a point, line or polygon) and requires supporting evidence (GEOGRAPHIC UNIT SOURCE ITEM) and justification (GEOGRAPHIC UNIT JUSTIFICATION) for its creation and major changes.

FMF Object Id Integer (long) 13 Mandatory  
 System generated identifier, unique at the application level.

**Class :** Identifier

CT Verification Status Character (variable length string) 10 Optional  
An indication as to whether a qualified employee has verified the existence of the geographic unit.

**Class :** Flag  
**Permissible Values :**  
'Verified', 'Unverified'

Verification Status Date Date Optional  
Date that the geographic unit was verified/validated.

**Class :** Date

Business Effective Date Flag Character (variable length string) 10 Optional  
Indication of whether the business effective date is an actual or estimated value.

**Class :** Flag  
**Permissible Values :**  
'Actual', 'Estimated'

Business Effective Date Date Optional  
Date that the record becomes effective in relation to the business i.e. the date MNR became aware of its existence.

**Class :** Date

Business Expiry Date Date Optional  
A date indicating when the record was determined to be invalid.

**Class :** Date

Location Accuracy Character (variable length string) 2 Mandatory  
The degree of conformity or closeness of a measurement within the database to its true value in the world.

**Class :** Code  
*Valid values in NRVIS\_LOCATION\_ACCURACY.*

Location Description Character (variable length string) 2000 Optional  
Description of the area or directions on how to get to the site.

**Class :** Description

Data Sensitivity Indicator Character (variable length string) 3 Mandatory  
An indication of whether the geographic unit is sensitive.  
This attribute will eventually be removed once all application have been modified to the new attributes.

**Class :** Indicator

**Permissible Values :**

'Yes','No'

CT Sensitivity Class

Character (variable length string) 15 Mandatory

The ranking of the sensitivity of the information embodied in the feature. Often wide-spread knowledge of the location of some rare aspect of our natural heritage will endanger it. On the other hand, this knowledge by some parties is also extremely important for its protection.

High - information that is extremely sensitive and intended for use by named individuals only. Refers to information that could have negative impacts on human life or health if released. Currently no data classes meet this

Medium - information that is sensitive and intended for use only by specified groups of employees and approved agents of the Crown. For OLIV/NRVIS refers to information where the entire data type has been flagged as sensitive (i.e. Stick Nests for Vulnerable Threatened and Endangered (VTE) species)

Low - information generally available to employees and approved agents of the Crown. Refers to sensitive features within a data type not normally sensitive (i.e. specific instances of Pileated Woodpecker)

Non Sensitive - data and information that does not fall into any of the three sensitivity levels. If disclosed will not result in any injury to individuals, government or private sector institutions (i.e. base data)

**Class :** Type**Permissible Values :**

'High','Medium','Low','Non-Sensitive'

CT SENSITIVITY DATE

Date Mandatory

The date that the sensitivity classification was established.

**Class :** DateSensitivity Rationale

Character (variable length string) 50 Mandatory

The primary reason for the object's information sensitivity classification.

Examples: "VTE Species", "Data provider agreement", "No restriction needed" (for Not Sensitive data), "Protect feature type", "Protect single feature", "Legislative or legal reqt", "Other".

**Class :** Description**Permissible Values :**

"VTE Species", "Data Provider Agreement", "No Restriction Needed", "Protect Feature type", "Protect Single Feature", "Legislative or Legal Req", "Other".

Other Rationale Description

Character (variable length string) 250 Optional

Description of the reason(s) for the information classification when "Other" is selected as the rationale.

**Class :** DescriptionCT SYSTEM CALCULATED AREA

Decimal 16 3 Optional

The area of a polygon measured in square metres by the system.

**Class :** MeasurementCT SYSTEM CALCULATED LENGTH

Decimal 16 3 Optional

The perimeter of a polygon or length of a line measured in metres.

**Class :** Measurement

CT USER CALCULATED METRIC Decimal 16 3 Optional  
The length, perimeter or area of an object in metres or square metres as measured or provided by the user.

**Class :** Measurement

Geographic Unit Description Character (variable length string) 2000 Optional  
Detailed description of the Geographic Unit.

**Class :** Description

General Comments Character (variable length string) 2000 Optional  
Unstructured description, additional notes, or further explanation of long length.

**Class :** Description

Each GEOG UNIT May be One or more GEOG UNIT AND SOURCE(s). Exclusive :

Each GEOG UNIT May be One or more OTHER INFORMATION(s). Exclusive :

Each GEOG UNIT May be One or more DATABASE REFERENCE(s). Exclusive :

Each GEOG UNIT May be One or more GEOG UNIT PARTY(s). Exclusive :

Each GEOG UNIT May be One or more GEOG UNIT AND JUSTIFICATION(s). Exclusive :

Each GEOG UNIT May be One or more GEOG UNIT AND SUPP MATERIAL(s). Exclusive :

## **Entity : GEOG UNIT AND JUSTIFICATION**

### **Description :**

Intersection table between Geographic Unit and Justification.

Geog Unit FMF Object Id Integer (long) 13 Mandatory  
System generated identifier, unique at the application level.

**Class :** Identifier

Justification FMF Object Id Integer (long) 13 Mandatory  
System generated identifier, unique at the application level.

**Class :** Identifier

Action Character (variable length string) 6 Mandatory  
Type of transaction performed on an Object's tabular data.

**Class :** Code

**Permissible Values :**

'Create','Modify','Delete','Import'

Each GEOG UNIT AND JUSTIFICATION Must be One and only one GEOG UNIT(s). Exclusive :

Each GEOG UNIT AND JUSTIFICATION Must be One and only one JUSTIFICATION(s). Exclusive :

## Entity : GEOG UNIT AND SITE ACCESS

**Description :**

Intersection table between Geographic Unit and Site Access Method.

FMF Object Id Integer (long) 13 Mandatory  
System generated identifier, unique at the application level.

**Class :** Identifier

CT SITE ACCESS METHOD Character (variable length string) 20 Mandatory  
The method of accessing the geographic unit.

**Class :** Code

**Permissible Values :**

'Road','Boat','Foot','Float Aircraft','Railroad','Wheeled Aircraft','Helicopter','4X4 Road','ATV Road','Hiking Trail'

Each GEOG UNIT AND SITE ACCESS Must be One and only one SITE ACCESS METHOD(s). Exclusive :

## Entity : GEOG UNIT AND SOURCE

**Description :**

Intersection table between Geog Unit and Source.

Geog Unit FMF Object Id Integer (long) 13 Mandatory  
System generated identifier, unique at the application level.

**Class :** Identifier

Source FMF Object Id Integer (long) 13 Mandatory  
System generated identifier, unique at the application level.

**Class :** Identifier

CT Source Detail Character (variable length string) 255 Optional  
What part of the source pertains to the feature. Examples: Summary data from a data base, pages in a book or atlas, figure number and page from a publication, a section of a map, record in a database.

**Class :** Description

CT Observation Date Character (variable length string) 14 Optional

The year, year/month, year/month/day or year/month/day/hour/minute/second that the species was most recently observed in the geographic unit.

**Class :** Character Date

CT Confidence Level Character (variable length string) 1 Mandatory  
The level of confidence in the person/techniques/methods used in collecting the observation data. Possible confidence levels include H (high), M (medium), or L (low).

**Class :** Code  
**Permissible Values :**  
'H','M','L'

Confidence Level Comments Character (variable length string) 2000 Optional  
Comments related to the confidence level.

**Class :** Description

Source Applicability Character (variable length string) 20 Optional  
How the source contributes to the feature's definition.

**Class :** Description  
**Permissible Values :**  
'Spatial','Tabular','Spatial/Tabular'

CT METHOD NAME Character (variable length string) 100 Optional  
The name of the method used.

**Class :** Name

CT METHOD DESCRIPTION Character (variable length string) 2000 Optional  
The type of method, tools, and techniques used in observing/collecting/recording the Geographic Unit Source. It may also include a URL where users could get further information on the method used.

**Class :** Description

CT SOURCE DESCRIPTION Character (variable length string) 2000 Optional  
Text providing details about the source.

**Class :** Description

Each GEOG UNIT AND SOURCE Must be One and only one GEOG UNIT(s). Exclusive :

Each GEOG UNIT AND SOURCE Must be One and only one SOURCE(s). Exclusive :

## Entity : GEOG UNIT AND SUPP MATERIAL

**Description :**

Intersection table between Geographic Unit and Supporting Material.

FMF Object Id Integer (long) 13 Mandatory  
System generated identifier, unique at the application level.

**Class** : Identifier

CT MATERIAL\_NAME Character 200 Mandatory  
A name or brief description of the material.

**Class** : Name

Each GEOG UNIT AND SUPP MATERIAL Must be One and only one GEOG UNIT(s). Exclusive :

Each GEOG UNIT AND SUPP MATERIAL Must be One and only one SUPPORTING MATERIAL(s). Exclusive :

## Entity : GEOG UNIT PARTY

### Description :

An association between a Party and a Role to signify that this Party plays this specific role.

CT PARTY IDENTIFIER Character (variable length string) 25 Mandatory  
An identifier for a party (group or individual). It should reference an identifier in an external database which would contain further information. The identifier should not contain personal information (i.e. Social Insurance Number, Outdoors Card Number, phone number, name etc.).

**Class** : Identifier

CT PARTY DATABASE Character (variable length string) 100 Mandatory  
The database that contains the party information.

**Class** : Name

FMF Object Id Integer (long) 13 Mandatory  
System generated identifier, unique at the application level.

**Class** : Identifier

CT ROLE TYPE Character (variable length string) 50 Mandatory  
The role that an organization or an individual plays.  
Need to confirm length required

**Class** : Description

CT ROLE DETAIL Character (variable length string) 200 Optional  
Further qualification of a role type in relation to a geographic unit or source i.e. the role type of Owner may be further qualified by the description "Property".

**Class :** Description

<u>CT START DATE</u>	Date	Optional
The date when a Party starts to play a Role.		

**Class :** Date

<u>CT END DATE</u>	Date	Optional
The date when a Party ceases to play a Role.		

**Class :** Date

Each GEOG UNIT PARTY Must be One and only one GEOG UNIT(s). Exclusive :

## Entity : JUSTIFICATION

### Description :

The justification for the addition of or changes to an object.

<u>FMF Object Id</u>	Integer (long)	13	Mandatory
System generated identifier, unique at the application level.			

**Class :** Identifier

<u>Justification Reason</u>	Character (variable length string)	2000	Mandatory
Reason for justification of the existence of a GEOGRAPHIC UNIT.			

**Class :** Description

<u>Justification Date</u>	Date	Mandatory
Date that the GEOGRAPHIC UNIT was justified.		

**Class :** Date

<u>Justification Comments</u>	Character (variable length string)	2000	Optional
Comments relating to justification.			

**Class :** Description

Each JUSTIFICATION May be One or more GEOG UNIT AND JUSTIFICATION(s). Exclusive :

## Entity : OTHER INFORMATION

### Description :

This table allows the NRVIS/LIO users to enter local-needs type of information, currently not captured in the NRVIS or LIO database. The table content will be analysed periodically to determine if the field(s) should be incorporated into the regular data class structure.

CT FIELD NAME Character (variable length string) 30 Mandatory  
The attribute name for the information.

**Class :** Name

FMF Object Id Integer (long) 13 Mandatory  
System generated identifier, unique at the application level.

**Class :** Identifier

CT FIELD TYPE Character (variable length string) 8 Mandatory  
The type of field.

**Class :** Type  
**Permissible Values :**  
'String','Integer','Double'

CT FIELD VALUE STRING Character (variable length string) 50 Optional  
A field used to store character strings.

**Class :** Description

CT FIELD VALUE INTEGER Integer 5 Optional  
A field used to store integer values (small numbers).

**Class :** Quantity

CT FIELD VALUE DOUBLE Numeric 10 3 Optional  
A field used to store decimal data with up to two decimals.

**Class :** Quantity

Each OTHER INFORMATION Must be One and only one GEOG UNIT(s). Exclusive :

## Entity : PLAN

### Description :

An approved document containing information identifying management goals and objectives for a resource or other feature (e.g. aquatic resource area plan, district fisheries management plan, management advisory committee plan, resource management committee plan, municipal official plan etc.). A plan must be associated with an existing object or must have its own boundaries.

Plan Identifier Character (variable length string) 75 Mandatory  
A name or number used to uniquely identify a plan.

**Class :** Business Identifier

Plan Type Character (variable length string) 50 Mandatory  
A list of possible plan types e.g. Waterbody Plan, Aquatic Resource Area Plan, District Fisheries Management Plan, Management Advisory Committee Plan, Resource Management Agreement Plan, Forest Management Plan, Municipal Official Plan, Watershed Plan.

**Class :** Code Description  
*Valid values in NRVIS\_PLAN\_TYPE.*

Plan Start Date Character (variable length string) 11 Optional  
The date the plan was approved for implementation e.g. 19-June-98, June-98, 1998.

**Class :** Character Date

Plan Expiry Date Character (variable length string) 11 Optional  
The date the plan is scheduled to expire.

**Class :** Character Date

Location Description Character (variable length string) 2000 Optional  
Description of the area or directions on how to get to the site.

**Class :** Description

Objectives Character (variable length string) 2000 Optional  
A brief statement describing the goals and objectives.

**Class :** Description

Comments Medium Character (variable length string) 2000 Optional  
Unstructured description, additional notes, or further explanation of medium length.

**Class :** Description

## Entity : SITE ACCESS METHOD

**Description :**  
The method of accessing the geographic unit e.g. Road, Helicopter, Boat, etc.

CT SITE ACCESS METHOD Character (variable length string) 20 Mandatory  
The method of accessing the geographic unit.

**Class :** Code  
**Permissible Values :**  
'Road','Boat','Foot','Float Aircraft','Railroad','Wheeled Aircraft','Helicopter','4X4 Road','ATV Road','Hiking Trail'

Each SITE ACCESS METHOD May be One or more GEOG UNIT AND SITE ACCESS(s). Exclusive :

## Entity : SOURCE

### Description :

The source information that is the basis for creating or changing information about a geographic unit. The source information will be pre-populated and users will select from a predefined list of sources.

FMF Object Id Integer (long) 13 Mandatory  
System generated identifier, unique at the application level.

**Class** : Identifier

CT Source Name Character (variable length string) 100 Mandatory  
The name of the source.

**Class** : Name

Source Identifier Character (variable length string) 25 Optional  
Identifier for a source.

**Class** : Identifier

CT SOURCE DATE Character (variable length string) 50 Optional  
The date of the source.

**Class** : Date

Source Originators Character (variable length string) 75 Optional  
The originator or author of the source. Includes the author(s) of a book; the originator(s) of a survey or project;  
Examples : Smith, J.  
Smith, J. and Jones, K.  
Smith, J., Jones, K. and White, T.  
Anon. (where no author identified)  
OMNR (where authorship is corporate)  
Northwest District (lead and delivered the data collection project)

**Class** : Name

Scale Or Resolution Character (variable length string) 15 Optional  
The scale of the vector base or aerial photography, the cell resolution of a grid, or the pixel resolution of an image used to record the location of the feature. Examples: For a vector source or aerial photography: 1:10,000 1:20,000 1:250,000. For a grid or imagery source: 1 km, 10 m, 15 seconds.

**Class** : Description

CT Horizontal Datum Character (variable length string) 10 Optional

Identifies the reference system used for defining the coordinates of points. There are three common horizontal datum systems used in Ontario: NAD83, NAD27, NAD27 with 1974 adjustment. The datum models the shape of the earth.

**Class :** Name

**Permissible Values :**

'NAD27','NAD83','NAD27adj74'

Vertical Datum

Character (variable length string) 30 Optional

The zero surface to which elevations or heights are referred is called a vertical datum. Traditionally, surveyors and mapmakers have tried to simplify the task by using the average (or mean) sea level as the definition of zero elevation, because the sea surface is available worldwide. MSL is a close approximation to another surface, defined by gravity, called the geoid, which is the true zero surface for measuring elevations. Example: WGS-84 EGM96 Geoid.

**Class :** Name

Projection Name

Character (variable length string) 40 Optional

The name of a systematic representation of all or part of the surface of the Earth on a plane or developable surface.

**Class :** Name

Each SOURCE May be One or more GEOG UNIT AND SOURCE(s). Exclusive :

## Entity : SUPPORTING MATERIAL

**Description :**

Material (document/file/picture) that provides more information on a spatial object.

CT MATERIAL NAME

Character 200 Mandatory

A name or brief description of the material.

**Class :** Name

CT MATERIAL LOCATION

Character (variable length string) 200 Mandatory

The location where the supporting material is stored. This may be a physical location or a link to a storage location.

**Class :** Description

CT URL English

Character (variable length string) 500 Optional

The address of a computer or a document in English on the Internet that consists of a communications protocol followed by a colon and two slashes (as http://), the identifier of a computer (as www.m-w.com) and usually a path through a directory to a file -- called also universal resource locator.

**Class :** Description

CT URL French

Character (variable length string) 500 Optional

The address of a computer or a document in French on the Internet that consists of a communications protocol followed by a colon and two slashes (as http://), the identifier of a computer (as www.m-w.com) and usually a path through a directory to a file -- called also universal resource locator.

**Class** : Description

Each SUPPORTING MATERIAL Must be One or more GEOG UNIT AND SUPP MATERIAL(s). Exclusive :

### 5.5 Current vs Proposed Common Tables – Mapping of Tables and Attributes

The left hand column captures the current attribute names used in OLIW (Reference: Common Tables SNIF Report V1). The middle column captures the new logical model design view data attribute names, and the right column captures the new attribute names used in the new Common Tables SNIF Report V2.

Physical Data Model V1	Design View Data Model V2	Physical Data Model V2
ALIAS_NAME.FMF_OBJECT_ID	ALIAS NAME - FMF Object ID	<i>to be carried in an external table called ALIAS_NAME</i>
ALIAS_NAME.LOCAL_NAME	ALIAS NAME - Local Name	<i>to be carried in an external table called ALIAS_NAME</i>
ALIAS_NAME.OFFICIAL_NAME_IND	ALIS NAME - Primary Name Indicator	<i>to be carried in an external table called ALIAS_NAME</i>
ALIAS_NAME.EFFECTIVE_DATETIME	<i>implementation field; not carried in Design View model</i>	
ALIAS_NAME.EXPIRY_DATETIME	<i>implementation field; not carried in Design View model</i>	
ALIAS_NAME.EXT_EFFECTIVE_DATETIME	<i>implementation field; not carried in Design View model</i>	
ALIAS_NAME.EXT_EXPIRY_DATETIME	<i>implementation field; not carried in Design View model</i>	
ALIAS_NAME.LOCAL_NAME_UPPER	<i>no longer required; generated as required by implementation team</i>	
EXTERNAL_REFERENCE.FMF_OBJECT_ID	DATABASE REFERENCE - FMF Object ID	GEOG_UNIT_DATABASE_REFERENCE.FMF_OBJECT_ID
EXTERNAL_REFERENCE.SOURCE_METHOD_FID	<i>no longer required</i>	
EXTERNAL_REFERENCE.GEOG_UNIT_TYPE_NUM	<i>no longer required</i>	
EXTERNAL_REFERENCE.GENERAL_COMMENTS	DATABASE REFERENCE - Database Reference Detail	GEOG_UNIT_DATABASE_REFERENCE.DATABASE_REFERENCE_DETAIL
EXTERNAL_REFERENCE.CONFIDENCE_LEVEL_CODE	<i>no longer required</i>	
EXTERNAL_REFERENCE.CONFIDENCE_LEVEL_COMMENTS	<i>no longer required</i>	
EXTERNAL_REFERENCE.BUSINESS_EFFECTIVE_DATE	<i>no longer required</i>	
EXTERNAL_REFERENCE.EXT_REF_IDENTITY	EXTERNAL - External Reference	GEOG_UNIT_DATABASE_REFERENCE.EXTERNAL_REFERENCE_TYPE
EXTERNAL_REFERENCE.EXT_REF_TYPE_CODE	<i>no longer required</i>	
EXTERNAL_REFERENCE.EFFECTIVE_DATETIME	<i>implementation field; not carried in Design View model</i>	GEOG_UNIT_DATABASE_REFERENCE.EFFECTIVE.DATETIME

EXTERNAL_REFERENCE.EXPIRY_DATETIME	<i>implementation field; not carried in Design View model</i>	GEOG_UNIT_DATABASE_REFERENCE.EXPIRY_DATETIME
EXTERNAL_REFERENCE.PUBLISH_DB_NAME	<i>no longer required</i>	
EXTERNAL_REFERENCE.EXT_EFFECTIVE_DATETIME	<i>implementation field; not carried in Design View model</i>	GEOG_UNIT_DATABASE_REFERENCE.EXT_EXPIRY_DATETIME
EXTERNAL_REFERENCE.EXT_EXPIRY_DATETIME	<i>no longer required</i>	
EXTERNAL_REFERENCE.TYPE_OTHER_DESCR	EXTERNAL - Type Other Description	GEOG_UNIT_DATABASE_REFERENCE.TYPE_OTHER_DESCR
EXTERNAL_REFERENCE.SOURCE_SCALE	<i>no longer required; to be captured in linked database if required</i>	
EXTERNAL_REFERENCE.SOURCE_TYPE_CODE	<i>no longer required; to be captured in linked database if required</i>	
EXTERNAL_REFERENCE.SOURCE_HORIZONTAL_DATUM_FLG	<i>no longer required; to be captured in linked database if required</i>	
EXTERNAL_REFERENCE.SOURCE_VERTICAL_DATUM_FLG	<i>no longer required; to be captured in linked database if required</i>	
EXTERNAL_REFERENCE.SOURCE_YEAR	<i>no longer required; to be captured in linked database if required</i>	
EXTERNAL_REFERENCE.SOURCE_PROJECTION	<i>no longer required; to be captured in linked database if required</i>	
FIRE_DETAIL.FMF_OBJECT_ID	<i>implementation field; not carried in Design View model</i>	
FIRE_DETAIL.DOLLAR_VALUE_CODE	FIRE DETAIL - Dollar Value	<i>to be carried in an external table called FIRE_DETAIL</i>
FIRE_DETAIL.FIRE_RISK_LEVEL_CODE	FIRE DETAIL - Fire Risk Level	<i>to be carried in an external table called FIRE_DETAIL</i>
FIRE_DETAIL.FUEL_CLASS_CODE	FIRE DETAIL - Fuel Class	<i>to be carried in an external table called FIRE_DETAIL</i>
FIRE_DETAIL.EFFECTIVE_DATETIME	<i>implementation field; not carried in Design View model</i>	
FIRE_DETAIL.EXPIRY_DATETIME	<i>implementation field; not carried in Design View model</i>	
FIRE_DETAIL.EXT_EFFECTIVE_DATETIME	<i>implementation field; not carried in Design View model</i>	
FIRE_DETAIL.EXT_EXPIRY_DATETIME	<i>implementation field; not carried in Design View model</i>	
GEOG_UNIT.FMF_OBJECT_ID	GEOG UNIT - FMF Object ID	GEOG_UNIT.FMF_OBJECT_ID
GEOG_UNIT.GEOG_UNIT_TYPE_NUM	<i>no longer required</i>	
GEOG_UNIT.GEOG_UNIT_DESC	GEOG UNIT - Geographic Unit Description	GEOG_UNIT.GEOGRAPHIC_UNIT_DESC

GEOG_UNIT.VERIF_STATUS_DATE	GEOG UNIT - Verification Status Date	GEOG_UNIT.VERIFICATION_STATUS_DATE
GEOG_UNIT.VERIFICATION_STATUS_FLG	GEOG UNIT - Verification Status	GEOG_UNIT.VERIFICATION_STATUS_FLG
GEOG_UNIT.LOCATION_DESCR	GEOG UNIT - Location Description	GEOG_UNIT.LOCATION_DESCR
GEOG_UNIT.LOCATION_ACCURACY_CODE	GEOG UNIT - Location Accuracy	GEOG_UNIT.LOCATION_ACCURACY
GEOG_UNIT.GENERAL_COMMENTS	GEOG UNIT - General Comments	GEOG_UNIT.GENERAL_COMMENTS
GEOG_UNIT.BUSINESS_EFFECTIVE_DATE	GEOG UNIT - Business Effective Date	GEOG_UNIT.BUSINESS_EFFECTIVE_DATE
GEOG_UNIT.BUSINESS_EXPIRY_DATE	GEOG UNIT - Business Expiry Date	GEOG_UNIT.BUSINESS_EXPIRY_DATE
GEOG_UNIT.BUSINESS_EFF_DATE_FLAG	GEOG UNIT - Business Effective Date Flag	GEOG_UNIT.BUSINESS_EFF_DATE_FLAG
GEOG_UNIT.PRESUMED_REAL_IND	<i>no longer required as per user feedback - this will be dealt with through Verification</i>	
GEOG_UNIT.DATA_SENSITIVITY_IND	GEOG UNIT - Data Sensitivity Indicator	GEOG_UNIT.DATA_SENSITIVITY_IND
GEOG_UNIT.NATIVE_IND	<i>no longer required as per user feedback</i>	
GEOG_UNIT.SYSTEM_CALC_METRIC	GEOG UNIT - System Calculated Area	GEOG_UNIT.SYSTEM_CALCULATED_AREA
GEOG_UNIT.USER_CALC_AREA	GEOG UNIT - User Calculated Metric	GEOG_UNIT.USER_CALCULATED_METRIC
GEOG_UNIT.EFFECTIVE_DATETIME	<i>implementation field; not carried in Design View model</i>	GEOG_UNIT.EFFECTIVE_DATETIME
GEOG_UNIT.EXPIRY_DATETIME	<i>implementation field; not carried in Design View model</i>	GEOG_UNIT.EXPIRY_DATETIME
GEOG_UNIT.EXT_EXPIRY_DATETIME	<i>implementation field; not carried in Design View model</i>	GEOG_UNIT.EXT_EXPIRY_DATETIME
GEOGRAPHIC_UNIT_AND_SITE_ACCESS.GEOG_UNIT_FMF_OBJECT_ID	<i>no longer required</i>	
GEOGRAPHIC_UNIT_AND_SITE_ACCESS.SITE_ACCESS_CODE	<i>to be carried in a SITE ACCESS METHOD - Site Access Method - will now be using the full description as opposed to just the code</i>	<i>to be carried in an external table called SITE_ACCESS_METHOD</i>
GEOGRAPHIC_UNIT_AND_SITE_ACCESS.EFFECTIVE_DATETIME	<i>no longer required</i>	
GEOGRAPHIC_UNIT_AND_SITE_ACCESS.EXPIRY_DATETIME	<i>no longer required</i>	
GEOGRAPHIC_UNIT_AND_SITE_ACCESS.EXT_EFFECTIVE_DATETIME	<i>no longer required</i>	

GEOGRAPHIC_UNIT_AND_SITE_ACCE SS.EXT_EXPIRY_DATETIME	<i>no longer required</i>	
GEOGRAPHIC_UNIT_AND_SOURCE.G EOG_UNIT_FMF_OBJECT_ID	<i>no longer required</i>	
GEOGRAPHIC_UNIT_AND_SOURCE.G U_SOURCE_FMF_OBJECT_ID	<i>no longer required</i>	
GEOGRAPHIC_UNIT_AND_SOURCE.S OURCE_TYPE_FLAG	<i>no longer required</i>	
GEOGRAPHIC_UNIT_AND_SOURCE.EF FECTIVE_DATETIME	<i>no longer required</i>	
GEOGRAPHIC_UNIT_AND_SOURCE.E XPIRY_DATETIME	<i>no longer required</i>	
GEOGRAPHIC_UNIT_AND_SOURCE.E XT_EFFECTIVE_DATETIME	<i>no longer required</i>	
GEOGRAPHIC_UNIT_AND_SOURCE.E XT_EXPIRY_DATETIME	<i>no longer required</i>	
GEOG_UNIT_AND_JUSTIF.FMF_OBJEC T_ID	GEOG UNIT AND JUSTIFICATION - Geog Unit FMF Object ID	GEOG_UNIT_AND_JUSTIF.FMF_OBJEC T_ID
GEOG_UNIT_AND_JUSTIF.EFFECTIVE _DATETIME	<i>implementation field; not carried in Design View model</i>	GEOG_UNIT_AND_JUSTIF.EFFECTIVE _DATETIME
GEOG_UNIT_AND_JUSTIF.JUST_FMF_ OBJECT_ID	GEOG UNIT AND JUSTIFICATION - Justification FMF Object ID	GEOG_UNIT_AND_JUSTIF.JUST_FMF_ OBJECT_ID
GEOG_UNIT_AND_JUSTIF.ACTION	JUSTIFICATION - Action	GEOG_UNIT_AND_JUSTIF.ACTION_TY PE
GEOG_UNIT_AND_JUSTIF.EXPIRY_DA TETIME	<i>implementation field; not carried in Design View model</i>	GEOG_UNIT_AND_JUSTIF.EXPIRY_DA TETIME
GEOG_UNIT_AND_JUSTIF.EXT_EFFEC TIVE_DATTIME	<i>implementation field; not carried in Design View model</i>	GEOG_UNIT_AND_JUSTIF.EXT_EFFEC TIVE_DATETIME
GEOG_UNIT_AND_JUSTIF.EXT_EXPIR Y_DATTIME	<i>implementation field; not carried in Design View model</i>	GEOG_UNIT_AND_JUSTIF.EXT_EXPIR Y_DATETIME
GEOG_UNIT_AND_JUSTIF.MODIFIED_ BY_IND_FMF_OBJECT_ID	<i>no longer required</i>	
GEOGRAPHIC_UNIT_JUSTIFICATION.F MF_OBJECT_ID	JUSTIFICATION - FMF Object ID	JUSTIFICATION.FMF_OBJECT_ID
GEOGRAPHIC_UNIT_JUSTIFICATION.J USTIF_REASON_DESCR	JUSTIFICATION - Justification Reason	JUSTIFICATION.JUSTIFICATION_REAS ON
GEOGRAPHIC_UNIT_JUSTIFICATION.J USTIFICATION_DATE	JUSTIFICATION - Justification Date	JUSTIFICATION.JUSTIFICATION_DATE
GEOGRAPHIC_UNIT_JUSTIFICATION.J USTIFICATION_COMMENTS	JUSTIFICATION - Justification Comments	JUSTIFICATION.JUSTIFICATION_COM MENTS
GEOGRAPHIC_UNIT_JUSTIFICATION.E FFECTIVE_DATETIME	<i>implementation field; not carried in Design View model</i>	JUSTIFICATION.EFFECTIVE_DATETIM E

GEOGRAPHIC_UNIT_JUSTIFICATION.EXPIRY_DATETIME	<i>implementation field; not carried in Design View model</i>	JUSTIFICATION.EXPIRY_DATETIME
GEOGRAPHIC_UNIT_JUSTIFICATION.PUBLISH_DB_NAME	<i>no longer required</i>	
GEOGRAPHIC_UNIT_JUSTIFICATION.EXT_EFFECTIVE_DATETIME	<i>implementation field; not carried in Design View model</i>	JUSTIFICATION.EXT_EFFECTIVE_DATETIME
GEOGRAPHIC_UNIT_JUSTIFICATION.EXT_EXPIRY_DATETIME	<i>implementation field; not carried in Design View model</i>	JUSTIFICATION.EXT_EXPIRY_DATETIME
INTERNAL_REFERENCE.FMF_OBJECT_ID	<i>no longer required</i>	
INTERNAL_REFERENCE.INTERNAL_REF_FMF_OBJECT_ID	<i>no longer required</i>	
INTERNAL_REFERENCE.SOURCE_METHOD_FID	<i>no longer required</i>	
INTERNAL_REFERENCE.GEOG_UNIT_TYPE_NUM	<i>no longer required</i>	
INTERNAL_REFERENCE.GENERAL_COMMENTS	<i>replaced by DATABASE REFERENCE - Database Reference Detail</i>	GEOG_UNIT_DATABASE_REFERENCE.DATABASE_REFERENCE_DETAIL
INTERNAL_REFERENCE.CONFIDENCE_LEVEL_CODE	<i>no longer required as per user feedback</i>	
INTERNAL_REFERENCE.CONFIDENCE_LEVEL_COMMENTS	<i>no longer required as per user feedback</i>	
INTERNAL_REFERENCE.BUSINESS_EFFECTIVE_DATE	<i>no longer required as per user feedback</i>	
INTERNAL_REFERENCE.EFFECTIVE_DATETIME	<i>no longer required</i>	
INTERNAL_REFERENCE.EXPIRY_DATETIME	<i>no longer required</i>	
INTERNAL_REFERENCE.PUBLISH_DB_NAME	<i>no longer required</i>	
INTERNAL_REFERENCE.EXT_EFFECTIVE_DATETIME	<i>no longer required</i>	
INTERNAL_REFERENCE.EXT_EXPIRY_DATETIME	<i>no longer required</i>	
MATERIAL_REFERENCE.FMF_OBJECT_ID	<i>no longer required</i>	
MATERIAL_REFERENCE.SOURCE_REF_OR_DET_FID	<i>no longer required</i>	
MATERIAL_REFERENCE.REFERENCE_TYPE_FLG	<i>no longer required</i>	
MATERIAL_REFERENCE.SOURCE_METHOD_FID	<i>no longer required</i>	
MATERIAL_REFERENCE.GEOG_UNIT_TYPE_NUM	<i>no longer required</i>	

MATERIAL_REFERENCE.GENERAL_COMMENTS	<i>captured in SOURCE - Source Description</i>	GEOG_UNIT_AND_SOURCE.SOURCE_DESCR
MATERIAL_REFERENCE.CONFIDENCE_LEVEL_CODE	<i>captured in SOURCE - Source Description</i>	GEOG_UNIT_AND_SOURCE.SOURCE_DESCR
MATERIAL_REFERENCE.CONFID_LEVEL_COMMENTS	<i>captured in SOURCE - Source Description</i>	GEOG_UNIT_AND_SOURCE.SOURCE_DESCR
MATERIAL_REFERENCE.BUSINESS_EFFECTIVE_DATE	<i>no longer required as per user feedback</i>	
MATERIAL_REFERENCE.EFFECTIVE_DATETIME	<i>no longer required</i>	
MATERIAL_REFERENCE.EXPIRY_DATETIME	<i>no longer required</i>	
MATERIAL_REFERENCE.PUBLISH_DB_NAME	<i>no longer required</i>	
MATERIAL_REFERENCE.EXT_EFFECTIVE_DATETIME	<i>no longer required</i>	
MATERIAL_REFERENCE.EXT_EXPIRY_DATETIME	<i>no longer required</i>	
PLAN.FMF_OBJECT_ID	<i>no longer required</i>	
PLAN.PLAN_IDENTIFIER	PLAN - Plan Identifier	<i>to be carried in an external table called PLAN</i>
PLAN.PLAN_TYPE	PLAN - Plan Type	<i>to be carried in an external table called PLAN</i>
PLAN.CONC_CLASS_SHORT_NAME	<i>no longer required</i>	
PLAN.PLAN_START_DATE	PLAN - Plan Start Date	<i>to be carried in an external table called PLAN</i>
PLAN.PLAN_EXPIRY_DATE	PLAN - Plan Expiry Date	<i>to be carried in an external table called PLAN</i>
PLAN.LOCATION_DESCR	PLAN - Location Description	<i>to be carried in an external table called PLAN</i>
PLAN.OBJECTIVES	PLAN - Objectives	<i>to be carried in an external table called PLAN</i>
PLAN.COMMENTS	PLAN - Comments Medium	<i>to be carried in an external table called PLAN</i>
PLAN.CU_SOURCE_FMF_OBJECT_ID	<i>no longer required</i>	
PLAN.SOURCE_TYPE_FLAG	<i>no longer required</i>	
PLAN.EFFECTIVE_DATETIME	<i>no longer required</i>	
PLAN.PUBLISH_DB_NAME	<i>no longer required</i>	
PLAN.EXT_EFFECTIVE_DATETIME	<i>no longer required</i>	

PLAN.EXT_EXPIRY_DATETIME	<i>no longer required</i>	
ROLE.GISGRJ_FMF_OBJECT_ID	<i>no longer required</i>	
ROLE.GR_OR_IND_FMF_OBJECT_ID	<i>no longer required</i>	
ROLE.ROLE_TYPE_CODE	GEOG UNIT PARTY - Role Type	GEOG_UNIT_PARTY.ROLE_TYPE
ROLE.FMF_OBJECT_ID_FLG	<i>no longer required as per user feedback</i>	
ROLE.GROUP_OR_INDIVIDUAL_FLG	<i>no longer required as per user feedback</i>	
ROLE.ROLE_DESC	GEOG UNIT PARTY - Role Detail	GEOG_UNIT_PARTY.ROLE_DETAIL
ROLE.EFFECTIVE_DATETIME	<i>no longer required</i>	
ROLE.EXPIRY_DATETIME	<i>no longer required</i>	
ROLE.EXT_EFFECTIVE_DATETIME	<i>no longer required</i>	
ROLE.EXT_EXPIRY_DATETIME	<i>no longer required</i>	
SOURCE_METHOD.FMF_OBJECT_ID	<i>no longer required</i>	
SOURCE_METHOD.SOURCE_METHOD_SHORT_DESC	GEOG UNIT AND SOURCE - Method Name	GEOG_UNIT_AND_SOURCE.METHOD_DESCR
SOURCE_METHOD.METHOD_TOOLS_TECHNIQUES	GEOG UNIT AND SOURCE - Method Description	GEOG_UNIT_AND_SOURCE.METHOD_DESCR
SOURCE_METHOD.EFFECTIVE_DATE TIME	<i>no longer required</i>	
SOURCE_METHOD.EXPIRY_DATETIME	<i>no longer required</i>	
SOURCE_METHOD.PUBLISH_DB_NAME	<i>no longer required</i>	
SOURCE_METHOD.EXT_EFFECTIVE_DATE TIME	<i>no longer required</i>	
SOURCE_METHOD.EXT_EXPIRY_DATE TIME	<i>no longer required</i>	
SOURCE_OBSERVATION.FMF_OBJECT_ID	<i>no longer required</i>	
SOURCE_OBSERVATION.SOURCE_METHOD_FID	<i>no longer required</i>	

SOURCE_OBSERVATION.GEOG_UNIT_TYPE_NUM	<i>no longer required</i>	
SOURCE_OBSERVATION.GENERAL_COMMENTS	GEOG UNIT AND SOURCE - Source Description	GEOG_UNIT_AND_SOURCE.SOURCE_DESCR
SOURCE_OBSERVATION.CONFIDENCE_LEVEL_CODE	GEOG UNIT AND SOURCE - Confidence Level	GEOG_UNIT_AND_SOURCE.CONFIDENCE_LEVEL
SOURCE_OBSERVATION.CONFIDENCE_LEVEL_COMMENTS	GEOG UNIT AND SOURCE - Confidence Level Comments	GEOG_UNIT_AND_SOURCE.CONFIDENCE_LEVEL_COMMENTS
SOURCE_OBSERVATION.BUSINESS_EFFECTIVE_DATE	<i>no longer required as per user feedback</i>	
SOURCE_OBSERVATION.LOCATION_DESCRIPTOR	GEOG UNIT AND SOURCE - Source Description	GEOG_UNIT_AND_SOURCE.SOURCE_DESCR
SOURCE_OBSERVATION.GENERAL_DESCRIPTOR	GEOG UNIT AND SOURCE - Source Description	GEOG_UNIT_AND_SOURCE.SOURCE_DESCR
SOURCE_OBSERVATION.OBSERVATION_DATE_DESCR	GEOG UNIT AND SOURCE - Observation Date	GEOG_UNIT_AND_SOURCE.OBSERVATION_DATE
SOURCE_OBSERVATION.SOURCE_ITEM_PROVIDE_DATE	GEOG UNIT AND SOURCE - Source Description	GEOG_UNIT_AND_SOURCE.SOURCE_DESCR
SOURCE_OBSERVATION.EFFECTIVE_DATETIME	<i>implementation field; not carried in Design View model</i>	GEOG_UNIT_AND_SOURCE.EFFECTIVE_DATETIME
SOURCE_OBSERVATION.EXPIRY_DATETIME	<i>no longer required</i>	
SOURCE_OBSERVATION.PUBLISH_DATABASE_NAME	<i>no longer required</i>	
SOURCE_OBSERVATION.EXT_EFFECTIVE_DATETIME	<i>no longer required</i>	
SOURCE_OBSERVATION.EXT_EXPIRY_DATETIME	<i>no longer required</i>	
SOURCE_REFERENCE.FMF_OBJECT_ID	SOURCE - FMF Object ID	SOURCE.FMF_OBJECT_ID
SOURCE_REFERENCE.REFERENCE_TYPE_CODE	<i>to be stored in SOURCE - Source Name</i>	SOURCE.SOURCE_NAME
SOURCE_REFERENCE.SPEC_REFERENCE_TITLE_NAME	SOURCE - Source Name	SOURCE.SOURCE_NAME
SOURCE_REFERENCE.GENERAL_REFERENCE_TITLE_NAME	<i>to be stored in GEOG UNIT AND SOURCE - Source Detail</i>	GEOG_UNIT_AND_SOURCE.SOURCE_DETAIL
SOURCE_REFERENCE.REFERENCE_ORIGIN_NAME	SOURCE - Source Originators	SOURCE.SOURCE_ORIGINATOR
SOURCE_REFERENCE.PUBLICATION_YEAR	SOURCE - Source Date	SOURCE.SOURCE_DATE
SOURCE_REFERENCE.REFERENCE_EDITION	<i>to be stored in GEOG UNIT AND SOURCE - Source Detail</i>	GEOG_UNIT_AND_SOURCE.SOURCE_DETAIL
SOURCE_REFERENCE.EDITOR_NAME	<i>to be stored in GEOG UNIT AND SOURCE - Source Detail</i>	GEOG_UNIT_AND_SOURCE.SOURCE_DETAIL
SOURCE_REFERENCE.PUBLISHER_NAME	<i>to be stored in GEOG UNIT AND SOURCE - Source Detail</i>	GEOG_UNIT_AND_SOURCE.SOURCE_DETAIL

SOURCE_REFERENCE.PUBLISHER_LOC_NAME	<i>to be stored in GEOG UNIT AND SOURCE - Source Detail</i>	GEOG_UNIT_AND_SOURCE.SOURCE_DETAIL
SOURCE_REFERENCE.REFERENCE_NUMBER	<i>to be stored in GEOG UNIT AND SOURCE - Source Detail</i>	GEOG_UNIT_AND_SOURCE.SOURCE_DETAIL
SOURCE_REFERENCE.REFER_PAGE_NUMBERS	<i>to be stored in GEOG UNIT AND SOURCE - Source Detail</i>	GEOG_UNIT_AND_SOURCE.SOURCE_DETAIL
SOURCE_REFERENCE.UNPUBLISHED_CODE	<i>to be stored in GEOG UNIT AND SOURCE - Source Detail</i>	GEOG_UNIT_AND_SOURCE.SOURCE_DETAIL
SOURCE_REFERENCE.OTHER_REFERENCE_DETAILS	<i>to be stored in GEOG UNIT AND SOURCE - Source Detail</i>	GEOG_UNIT_AND_SOURCE.SOURCE_DETAIL
SOURCE_REFERENCE.EFFECTIVE_DATETIME	<i>implementation field; not carried in Design View model</i>	SOURCE.EFFECTIVE_DATETIME
SOURCE_REFERENCE.EXPIRY_DATE_TIME	<i>implementation field; not carried in Design View model</i>	SOURCE.EXPIRY_DATETIME
SOURCE_REFERENCE.EXT_EFFECTIVE_DATETIME	<i>implementation field; not carried in Design View model</i>	SOURCE.EXT_EFFECTIVE_DATETIME
SOURCE_REFERENCE.EXT_EXPIRY_DATETIME	<i>implementation field; not carried in Design View model</i>	SOURCE.EXT_EXPIRY_DATETIME
SOURCE_REFERENCE_DETAIL.FMF_OBJECT_ID	<i>no longer required</i>	
SOURCE_REFERENCE_DETAIL.REFER_PAGE_NUMBERS	<i>no longer required as per user feedback</i>	
SOURCE_REFERENCE_DETAIL.SOURCE_SCALE	SOURCE - Scale or Resolution	SOURCE.SOURCE_SCALE
SOURCE_REFERENCE_DETAIL.SOURCE_TYPE_CODE	<i>to be stored in SOURCE - Source Name</i>	SOURCE.SOURCE_NAME
SOURCE_REFERENCE_DETAIL.SOURCE_HORIZ_DATUM_FLG	SOURCE - Horizontal Datum	SOURCE.HORIZONTAL_DATUM
SOURCE_REFERENCE_DETAIL.VERT_DATUM_FLG	SOURCE - Vertical Datum	SOURCE.VERTICAL_DATUM
SOURCE_REFERENCE_DETAIL.SOURCE_YR	<i>replaced by SOURCE - Source Date</i>	SOURCE.SOURCE_DATE
SOURCE_REFERENCE_DETAIL.SOURCE_PROJECTION	SOURCE - Projection Name	SOURCE.SOURCE_PROJECTION
SOURCE_REFERENCE_DETAIL.TYPE_OTHER_DESCR	<i>to be stored in GEOG UNIT AND SOURCE - Source Detail</i>	GEOG_UNIT_AND_SOURCE.SOURCE_DETAIL
SOURCE_REFERENCE_DETAIL.EFFECTIVE_DATETIME	<i>no longer required</i>	
SOURCE_REFERENCE_DETAIL.EXPIRY_DATETIME	<i>no longer required</i>	
SOURCE_REFERENCE_DETAIL.EXT_EFFECTIVE_DATETIME	<i>no longer required</i>	
SOURCE_REFERENCE_DETAIL.EXT_EXPIRY_DATETIME	<i>no longer required</i>	

	<b><i>New Attributes:</i></b>	
<b><i>does not exist</i></b>	OTHER INFORMATION - Field Name	GEOG_UNIT_OTHER_INFORMATION.FI ELD_NAME
<b><i>does not exist</i></b>	OTHER INFORMATION - Field Type	GEOG_UNIT_OTHER_INFORMATION.FI ELD_TYPE
<b><i>does not exist</i></b>	OTHER INFORMATION - Field Value String	OTHER_INFORMATION.FIELD_VALUE_ STRING
<b><i>does not exist</i></b>	OTHER INFORMATION - Field Value Integer	OTHER_INFORMATION.FIELD_VALUE_ INTEGER
<b><i>does not exist</i></b>	OTHER INFORMATION - Field Value Double	GEOG_UNIT_OTHER_INFORMATION.FI ELD_VALUE_DOUBLE
<b><i>does not exist</i></b>	GEOG UNIT AND SUPP MATERIAL - FMF Object ID	GEOG_UNIT_AND_SUPP_MATERIAL.F MF_OBJECT_ID
<b><i>does not exist</i></b>	GEOG UNIT AND SUPP MATERIAL - Material Name	GEOG_UNIT_AND_SUPP_MATERIAL.M ATERIAL_NAME
<b><i>does not exist</i></b>	SUPPORTING MATERIAL - Material Name	SUPPORTING_MATERIAL.MATERIAL_N AME
<b><i>does not exist</i></b>	SUPPORTING MATERIAL - Material Location	SUPPORTING_MATERIAL.MATERIAL_L OCATION
<b><i>does not exist</i></b>	SUPPORTING MATERIAL - URL English	SUPPORTING_MATERIAL.URL_ENGLIS H
<b><i>does not exist</i></b>	SUPPORTING MATERIAL - URL French	SUPPORTING_MATERIAL.URL_FRENC H
<b><i>does not exist</i></b>	<i>this field added by development team to help with performance</i>	GEOG_UNIT_AND_JUSTIF.CONC_CLA SS_SHORT_NAME
<b><i>does not exist</i></b>	GEOG UNIT AND SOURCE - Source Detail	GEOG_UNIT_AND_SOURCE.SOURCE_ DETAIL
<b><i>does not exist</i></b>	GEOG UNIT AND SOURCE - Source Applicability	GEOG_UNIT_AND_SOURCE.SOURCE_ APPLICABILITY
<b><i>does not exist</i></b>	GU INFO SENSITIVITY CLASS - Sensitivity Class	GEOG_UNIT.SENSITIVITY_CLASS
<b><i>does not exist</i></b>	GU INFO SENSITIVITY CLASS - Sensitivity Date	GEOG_UNIT.SENSITIVITY_DATE
<b><i>does not exist</i></b>	GU INFO SENSITIVITY CLASS - Sensitivity Rationale	GEOG_UNIT.SENSITIVITY_RATIONALE
<b><i>does not exist</i></b>	GU INFO SENSITIVITY CLASS - Other Rationale Description	GEOG_UNIT.SENS_RATIONALE_OTHE R_DESC

<i>does not exist</i>	INTERNAL - Concrete Class Short Name	DATABASE_REFERENCE.CONCRETE_CLASS_SHORT_NAME
<i>does not exist</i>	GEOG UNIT PARTY - Party Identifier	GEOG_UNIT_PARTY.PARTY_IDENT
<i>does not exist</i>	GEOG UNIT PARTY - Start Database	GEOG_UNIT_PARTY.PARTY_DATABASE
<i>does not exist</i>	GEOG UNIT PARTY - Start Date	GEOG_UNIT_PARTY.START_DATE
<i>does not exist</i>	GEOG UNIT PARTY - End Date	GEOG_UNIT_PARTY.END_DATE
<i>does not exist</i>	<i>this field added by development team to help with performance</i>	GEOG_UNIT.CONC_CLASS_SHORT_NAME
<i>does not exist</i>	<i>this field added by development team to help with performance</i>	GEOG_UNIT.GEOG_UNIT_TYPE_NUM
<i>does not exist</i>	GEOGRAPHIC UNIT - System Calculated Length	GEOG_UNIT.SYSTEM_CALCULATED_LENGTH
<i>does not exist</i>	DATABASE REFERENCE - Internal External Flag	GEOG_UNIT_DATABASE_REFERENCE.INTERNAL_EXTERNAL_FLG
<i>does not exist</i>	DATABASE REFERENCE - Database Reference Identifier	DATABASE_REFERENCE.DATABASE_REFERENCE_IDENT
<i>does not exist</i>	DATABASE REFERENCE - Database Reference Detail	DATABASE_REFERENCE.DATABASE_REFERENCE_DETAIL
	SITE ACCESS METHOD - Site Access Method	SITE_ACCESS_METHOD.SITE_ACCESS_METHOD
<b>Other Tables:</b>		
ADDRESS	<i>will not be required - see section 5.7 for details</i>	
CIVIC_ADDRESS	<i>will not be required - see section 5.7 for details</i>	
INDIVIDUAL	<i>will not be required - see section 5.7 for details</i>	
FIRE_DETAIL	<i>will not be required - see section 3.3.5 for details</i>	
FMF_GROUP	<i>will not be required - see section 5.7 for details</i>	

GEOG_UNIT_AND_PLAN	<i>no longer required as per user feedback</i>	
MAILING_DELIVERY_ADDRESS	<i>will not be required - see section 5.7 for details</i>	
PHYSICAL_ACTUAL_ADDRESS	<i>will not be required - see section 5.7 for details</i>	
PLAN	<i>no longer required as per user feedback</i>	
ROLE	<i>replaced with GEOG UNIT PARTY ROLE</i>	
ZS_GEOG_UNIT_PLAN	<i>Not used in design view</i>	

## 5.6 Privacy Impact Report – Recommendations & Listing of Affected Data Classes

The following is an excerpt from the Ministry of Natural Resources, Natural Resources and Value Information System (NRVIS) Version 3.0 Project Privacy Impact Assessment Report, Executive Summary (from Reference 10)

The report recommends that the Ministry of Natural Resources:

1. Develop agreements with service delivery agents, such as iSERV, in which privacy and audit requirements are addressed.
2. Develop an agreement protocol with third parties that is based on the model agreement for the Ontario Geospatial Data Exchange (OGDE), wherein there are provisions requiring any integrating organization that is introducing new feature classes into NRVIS be subjected to the process of completing a Personal Information Needs Assessment (PINA) form to determine whether or not a Privacy Impact Assessment (PIA) needs to be prepared prior to the feature class being added into NRVIS.
3. Develop comprehensive security and privacy policies and procedures that relate to NRVIS. Specifically, consideration should be given to recording the authority and intent/use of personal information in the “Role Description Field” within NRVIS. This documentation will serve as a warning that the rights of individuals need to be protected under the authority granted for the collection and dissemination of personal information.
4. Develop and implement a privacy and security training plan for NRVIS users. Specifically, a training programme needs to be developed whereby users of NRVIS will give due consideration to the authority and intent/use of personal information that may be documented in the “Role Description Field” as described in Recommendation #3 above, to ensure that NRVIS users fully understand the implications of collecting, using and disseminating personal information in accordance with FIPPA legislation.
5. Regarding personal information already resident within NRVIS, conduct, at a minimum, a Personal Information Needs Assessment, and preferably a PIA on those feature classes and corresponding program areas that create personal information (PI) within NRVIS and focus the PINAs and/or PIAs on:
  - the collection authorities and practices; and
  - the use of personal information and the compliance with privacy principles.
6. Refine the process of Data Management Modeling to introduce a privacy review stage for new feature classes, including a review of program authority, use and sharing capabilities, retention periods and the kind of notice or consent to be applied at the collection stage. Specifically, consideration should be given to adopting the PINA Form (see Appendix A-2) as part of the Data Management Modeling process. Such a form would act as an audit trail that documents the consideration given to adding a new feature class into NRVIS, and in particular, documents the

consideration given to the addition of new personal information associated with a new feature class.

7. Develop the capacity to track access to and uses of fields of PI within NRVIS so as to allow individuals to be informed of how their PI has been used by MNR.
8. Through the conduct of the above referenced PINAs and/or PIAs, determine:
  - what PI is collected under what legislative authority;
  - the extent to which PI can be shared within MNR based legislative authority; and
  - the capacity for MNR to enable sharing of PI without restriction, through NRVIS.
9. Develop the capacity to set access controls to the various user classes to enable appropriate access to PI within the NRVIS environment. Specifically, consideration should be given to developing appropriate security access controls that would limit a NRVIS user from accessing personal information where they do not have the authority, or where the intent / use of personal information is not consistent with the guidelines under which personal information is collected or to be disseminated. Such security access controls would determine the type of user (i.e. Field Collection Staff Person for a specific Feature Class, General NRVIS User, Non-OPS User, etc.) and allow / disallow access to personal information depending on their authority to collect, use and disseminate personal information.

Section 5.3 excerpt

**Privacy Compliance Assessment (Stage 2)**

The purpose of this section of the PIA is to set out an assessment of how personal information conforms to privacy compliance standards. Specifically this section addresses how personal information is verified, who collects the information, and whether disclosure statements are imparted with the party implicated by collecting personal information.

**Description of Personal Information**

**Table 4A – Description of Personal Information**

Data Subjects	Source	Verification
Role	MNR Field Collection Staff	Verification of the role that an individual or group plays relative to a feature class (see Appendix A.1) is provided by the field staff. It is not clear whether the role that may be collected is verified with authorities responsible for maintaining that role. For example, a field staff person who collects information from a person in the field who states that they are a "Claim Holder" may or may not be verified with the agency that issues the "Claim". In addition, if the role changes, it is not clear whether the NRVIS database is updated to reflect such a change.
Individual	MNR Field Collection Staff	Verification of individual information is provided by the field staff. It is not clear whether the field collection staff ask for formal documentation verifying the individual is who they state they are. Furthermore, information about the individual – telephone numbers, e-mail address and addresses – may or may not be verified by the field staff. In addition, if any of

Data Subjects	Source	Verification
		these attributes change, it is not clear whether the NRVIS database is updated to reflect such a change.

The following table provides counts of the number of "Individuals" referenced by "Role" by "Feature Class" within the NRVIS Version 2.0 system as of April 10, 2003.

**Table 4B – Volume of Individuals by Role by Feature Class**

Feature Class	Role Name	Count of Individuals
Airport Airstrip	Contact	3
Bear Management Area	Authority Holder	53
Bear Management Area	Contact	1
Bear Management Area	Lease Holder	65
Bear Management Area	Operator	54
Climate Station	Contact	1649
Cottage Residential Site	Contact	1
Crown Leased Land	Authority Holder	2
Crown Leased Land	Lease Holder	1
Nesting Site	Contact	1
Pit Or Quarry	Authority Holder	49
Pit Or Quarry	Claim Holder	1
Recreation Access Point	Contact	31
Research Plot	Contact	13481
Tourism Establishment Area	Contact	18
Tower	Contact	1
Trapline Area	Authority Holder	238
Trapline Area	Contact	1
Trapline Area	Lease Holder	76
Trapper Cabin	Authority Holder	1
Trapper Cabin	Contact	7
Trapper Cabin	Lease Holder	31
Waste Disposal Site	Operator	5

Feature Class	Role Name	Count of Individuals
Wintering Area	Manager	1
Work Camp	Contact	71

## Direct and Indirect Collection Activities

Table 5 – Direct and Indirect Collection Activities

Personal Information	Collected By	Disclosures Applied
<b>Direct Collection:</b>		
Role	MNR Field Collection Staff	There is no explicit request for consent to record and disseminate role information.
Individual	MNR Field Collection Staff	There is no explicit request for consent to record and disseminate individual information.
<b>Indirect Collection:</b>		
Role	MNR Field Collection Staff	There is no explicit request for consent to record and disseminate role information.
Individual	MNR Field Collection Staff	There is no explicit request for consent to record and disseminate individual information.

## Disclosures

Generally, MNR Districts collect very little personal information. When collected, the information consists of the person's name and contact information by telephone (cell, home, business), e-mail, and Canada Post address. Personal information is collected for two purposes. One is to follow up with an individual who has reported the sighting of a feature, such as a nesting site. The other is to be able to contact an individual who is associated with a feature, such as the owner of a recreational camp, to provide a service or carry out ministry operations.

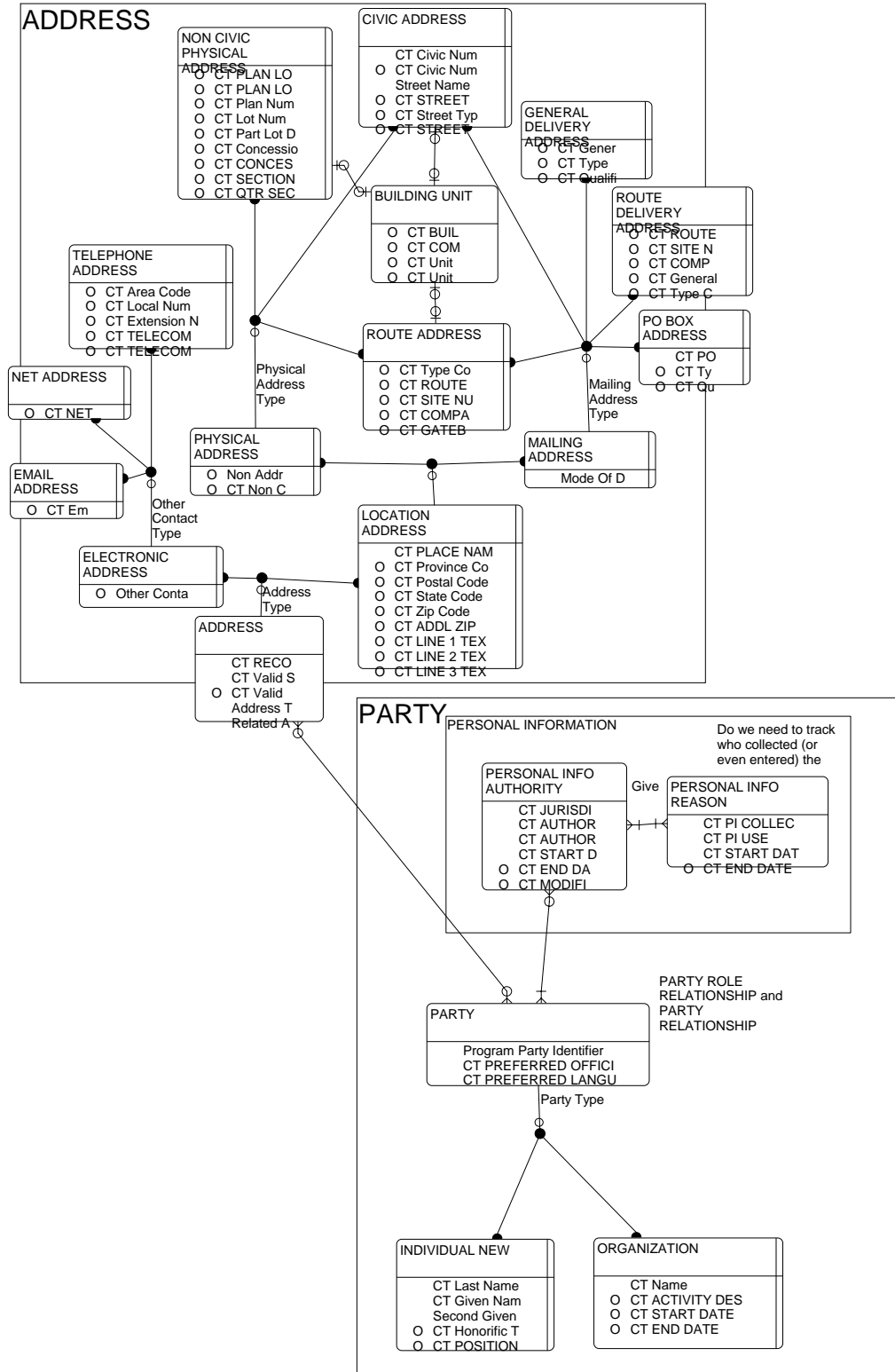
There are currently no formally established policies governing the collection of personal information in association with feature information that is recorded in NRVIS. Data collection procedures are either informally defined, or do not reflect privacy considerations such as obtaining explicit consent for collection and use of personal information. NRVIS information collection forms (referred to as tally sheets) do not have any instructions to advise the data collector of privacy compliance requirements.

NRVIS data is obtained from other MNR services such as Land Use Permit issuance. The forms used by these services do not always indicate that the information being provided may be used for purposes other than to approve and issue a permit. In these instances, forms are being revised to include notification that the information provided may be used for other resource management purposes. However, even where forms are revised, it may be some time before the old stock is consumed and the new ones put into use.

## 5.7 Personal Information Tables – Proposed Data standards Guidelines

The proposed Common Tables model will no longer include information on Individual, Group or Address. This information will be moved outside the OLIV/NRVIS Common Tables model or may be attached to individual business data class model if required using a secure table. The secure table provides sufficient measures to control access in OLIV/NRVIS.

The following diagram and data dictionary are suggested standards based on the latest [GO-ITS Document #27.1](#) for Party, Individual, Organization, and Address information (Reference 22a). These standards are provided, as a guideline only, for creating new personal information tables inside or outside the data class model. They do not necessarily reflect all of the GO-ITS attributes since they were vetted for those fields that would be of most use by business areas.



## Entity : ADDRESS

### Description :

Information that identifies, describes or helps find a Location (as defined in the OPS Conceptual Data Model) anywhere in the world. The Location Description may be used to visit a Location or send a message or object to a Location.

A Physical Location can be described by a Physical Address or Mailing Address. A Virtual Location can be described by a Mailing Address, Telephone Address, Email Address, or Net Address. Subtypes may be added for other telecommunications technologies, legacy address data formats, geospatial descriptions, or other ways of finding people and things.

<u>CT RECORD TYPE CODE</u>	Character	1	Mandatory
GO-ITS attribute			

A code used to indicate the types and formats of addresses.

0 = Non Civic Physical Address  
 1 = Civic Address  
 2 = Route Address  
 3 = PO Box Address  
 4 = Route Delivery Address  
 5 = General Delivery Address

**Class :** Code

<u>CT Valid Start Date</u>	Date	Mandatory
GO-ITS attribute to replace ADDRESS.EFFECTIVE_START_MMDD.		

The date that this Address became a valid description for all Party Roles and other usages of the Location.

**Class :** Date

<u>CT Valid End Date</u>	Date	Optional
GO-ITS attribute to replace ADDRESS.EFFECTIVE_END_DATE.		

The date that this Address ceased to be a valid description of the related Location for all Party Roles and other usages of the Location.

**Class :** Date

<u>Address Type</u>	Character (variable length string)	20	Mandatory
Type of address.			

**Class :** Flag

### Permissible Values :

'Mailing','Physical','Mailing And Physical'

<u>Related Address</u>	Character (variable length string)	25	Mandatory
Indication of the type of address : Civic Address, Mailing Delivery Address, Physical Actual Address			

**Class :**

### Permissible Values :

'Civic Address', 'Mailing Delivery Address', 'Physical Actual Address'

Temporary Indicator Character (variable length string) 3 Mandatory  
An indication of whether the address is temporary.

**Class :** Indicator  
**Permissible Values :**  
'Yes','No'

Each ADDRESS May be One or more PARTY(s). Exclusive :

## Entity : BUILDING UNIT

**Description :**  
The building and unit information part of an Address in Canada.

CT BUILDING NAME Character 30 Optional  
GO-ITS attribute

The name of a building, tower or other structure.

**Class :** Description

CT COMPLEX NAME Character 30 Optional  
GO-ITS attribute

The name of a group of buildings.

**Class :** Description

CT Unit Designator Code Character (variable length string) 10 Optional  
GO-ITS attribute replacing CIVIC\_ADDRESS.UNIT\_DESIG\_CODE

A code that identifies the type of address unit designator.

UnitDesignatorCode is language dependent. Codes common in both English and French are: HANGAR, HNGR, PHASE. Codes only valid in English are: APT, BACK, BSMT, CONDO, DEPT, DOOR, FL, FLOOR, FLR, FRNT, FRONT, LBBY, LOBBY, LOWER, PLANT, PH, REAR, RM, ROOM, SIDE, STN, STE, SUITE, TH, TWNHSE, TOWER, TWR, UNIT, UPPER, UPPR, WING. Codes only valid in French are: APP, BUREAU, ETAGE, LOC, LOCAL, LOG, PIECE, PORTE, SALLE, UNITE.

**Class :** Code

CT Unit Num Character 6 Optional  
GO-ITS attribute replaces CIVIC\_ADDRESS.UNIT\_NUMBER

Identifier of a unit within a building.

**Class :** Description

CT ADDL UNIT DESC Character (variable length string) 255 Optional

GO-ITS attribute

Free format text that describes a unit within a building, beyond the Unit Number and Unit Designator Code.

**Class :** Description

Each BUILDING UNIT May be One and only one CIVIC ADDRESS(s). Exclusive :

Each BUILDING UNIT May be One and only one ROUTE ADDRESS(s). Exclusive :

Each BUILDING UNIT May be One and only one NON CIVIC PHYSICAL ADDRESS(s). Exclusive :

## Entity : CIVIC ADDRESS

### Description :

An address (Mailing or Physical) that is identified by using Civic Number and Street Name.

CT Civic Num Character 6 Mandatory  
GO-ITS attribute replacing CIVIC\_ADDRESS.STREET\_NUMBER

The numeric portion of the identifier assigned to a house, building or land parcel, identifying where it is on the street. It is Also known as street number, house number or emergency number.

**Class :** Description

CT Civic Num Suffix Character 6 Optional  
GO-ITS attribute replacing CIVIC\_ADDRESS.CIVIC\_NUM\_SUFFIX

The letter or fraction that may follow the Civic Number to completely identify a house, building or land parcel. Valid civic number suffix codes can be found in the CDER table CAN\_CIVIC\_NUM\_SUFFIX.

**Class :** Description

Street Name Character (variable length string) 50 Mandatory  
The official name of the street recognized by the municipality.

**Class :** Name

CT STREET TYPE PREFIX Character 6 Optional  
GO-ITS attribute

The official abbreviation code preceding the street name to identify a type of thoroughfare (street, road, crescent, etc.) in Canada. See CDER table CAN\_STREET\_TYPE for full listing of prefixes.

**Class :** Description

CT Street Type Suffix Character 6 Optional  
GO-ITS attribute replacing CIVIC\_ADDRESS.STREET\_TYPE\_CODE

The official abbreviation code appearing after the street name to identify a type of thoroughfare (street, road, crescent, etc.).

**Class :** Description

CT STREET DIR PREFIX Character 2 Optional  
GO-ITS attribute

Used to store the character representation of a street name directional prefix that is used to segment and distinguish street right-of-ways where there is potential for duplicate address ranges in different quadrants of an address grid. For example, E 8th ST vs W 8th ST, or N Elm ST vs S Elm ST.

StreetDirPrefix codes are language dependent. Codes common in both English and French are: N, S, E, NE, and SE. Codes only valid in English are: W, NW, and SW. Codes only valid in French are: O, NO, and SO.

**Class :** Code

CT Street Dir Suffix Character 2 Optional  
GO-ITS attribute replacing CIVIC\_ADDRESS.STREET\_DIRECTION\_CODE

Used to store the character representation of a street name directional suffix that is used to segment and distinguish streets where there is potential for duplicate address ranges in different quadrants of an address grid. For example, 16th ST NE vs 16th ST SE.

StreetDirSuffix codes are language dependent. Codes common in both English and French are: N, S, E, NE, and SE. Codes only valid in English are: W, NW, and SW. Codes only valid in French are: O, NO, and SO.

**Class :** Code

**Subtype Of** MAILING ADDRESS

**Subtype Of** PHYSICAL ADDRESS

Each CIVIC ADDRESS May be One and only one BUILDING UNIT(s). Exclusive :

## Entity : ELECTRONIC ADDRESS

### Description :

Methods of contacting a party or person such as email, telephone, url or email.

Other Contact Method Character (variable length string) 75 Optional  
An other way of contacting an individual or group. eg. via radio, CB etc.

**Class :** Description

**Subtype Of** ADDRESS

## Entity : EMAIL ADDRESS

### Description :

An address for a Virtual Location which can be reached through the Internet, an extranet or an intranet, using electronic mail protocols. Example: myusername@mydomain.org.

CT Email Addr Character 100 Optional  
GO-ITS attribute replacing FMF\_GROUP.EMIAL\_IDENT

The full text of the electronic mail address, including the @ sign.

**Class** : Description

**Subtype Of** ELECTRONIC ADDRESS

## Entity : GENERAL DELIVERY ADDRESS

### Description :

A mailing address for which mail is delivered to a postal installation, rather than a specific street, route or box.

CT General Delivery Code Character 2 Optional  
GO-ITS attribute replacing MAILING\_DELIVERY\_ADDRESS.MODE\_OF\_DELIVERY\_CODE

A code that indicates GD for General Delivery or PR for Poste Restante.

**Class** : Code

CT Type Code Character 4 Optional  
GO-ITS attribute replacing MAILING\_ADDRESS\_ADDRESS.DELIVERY\_INSTALL\_CODE

A code that indicates the category of delivery installation.

The delivery installation type code is language dependent. The valid English codes are: CDO, CMC, LCD, PO, RPO, and STN, while the valid French codes are: BDP, CC, COP, CPC, CSP, PDF, and SUCC.

**Class** : Code

CT Qualifier Name Character 15 Optional  
GO-ITS attribute replacing MAILING\_DELIVERY\_ADDRESS.DELIVERY\_INSTALL\_QUAL

A qualifier name that identifies the delivery installation. Examples: A in "STN A" or MAIN in "STN MAIN".

**Class** : Description

**Subtype Of** MAILING ADDRESS

## Entity : INDIVIDUAL NEW

### Description :

An individual person who may be alive, unborn or deceased, and may be acting in a personal or professional capacity. (GO-ITS)

CT Last Name Character (variable length string) 80 Mandatory  
The surname of an individual. It may include Last Name Prefix, Last Name, Generation Identifier or Suffix, and is used as legal, formal, or informal names, as required for the program or service.

**Class :** Name

CT Given Name Character (variable length string) 80 Mandatory  
The forename of an individual. It may be First Name, Middle Name, or initials or any combination thereof, and is used as legal, formal, informal or alias names, as required for the program or service.

**Class :** Name

Second Given Name Or Initial Character (variable length string) 30 Mandatory  
A second legal given name of the person, in order following First Given Name Or Initial.

**Class :** Name

CT Honorific Title Character (variable length string) 25 Optional  
The prefix used to formally address an Individual. e.g. Mr., The Honourable Dr., Sgt., etc. Use this as a simplified version of the set of Individual Name Parts with Name Type Code = Preceding Title or Title.

**Class :** Description

CT POSITION TITLE Character (variable length string) 100 Optional  
The name of the job or position occupied by the Individual within an Organization.

**Class :** Description

**Subtype Of** PARTY

## Entity : LOCATION ADDRESS

**Description :**  
Address information for a location anywhere in the world.

CT PLACE NAME Character 30 Mandatory  
The name of a place such as a city, municipality, town, village, hamlet or community, recognized as either a postal municipality name or a physical place name.

**Class :** Description

CT Province Code Character 2 Optional  
GO-ITS attribute to replace MAILING\_DELIVERY\_ADDRESS.PROVINCE\_STATE\_CODE and PHYSICAL\_ACTUAL\_ADDRESS.PROVINCE\_STATE\_CODE and CIVIC\_ADDRESS.PROVINCE\_STATE\_CODE

A two-letter code for a Canada Province or Territory, as recognized by Canada Post.

<enumeration value="AB"/> <enumeration value="BC"/> <enumeration value="MB"/> <enumeration value="NB"/>  
 <enumeration value="NL"/> <enumeration value="NS"/> <enumeration value="NT"/> <enumeration value="NU"/>  
 <enumeration value="ON"/> <enumeration value="PE"/> <enumeration value="QC"/> <enumeration value="SK"/>  
 <enumeration value="YT"/>

**Class :** Code

CT Postal Code Character 6 Optional  
 GO-ITS attribute to replace MAILING\_DELIVERY\_ADDRESS.POSTAL\_ZIP and  
 PHYSICAL\_ACTUAL\_ADDRESS.POSTAL\_ZIP and CIVIC\_ADDRESS.POSTAL\_ZIP

A six character, alphanumeric combination in the format of A9A9A9, assigned to one or more Canada postal addresses.

**Class :** Description

CT State Code Character 2 Optional  
 GO-ITS attribute to replace MAILING\_DELIVERY\_ADDRESS.PROVINCE\_STATE\_CODE and  
 PHYSICAL\_ACTUAL\_ADDRESS.PROVINCE\_STATE\_CODE and CIVIC\_ADDRESS.PROVINCE\_STATE\_CODE

A two-letter code for the US States as well as US Army designated state codes, as recognized by Canada Post and the US Postal Services.

<enumeration value="AL"/> <enumeration value="AK"/> <enumeration value="AS"/> <enumeration value="AZ"/>  
 <enumeration value="AR"/> <enumeration value="CA"/> <enumeration value="CO"/> <enumeration value="CT"/>  
 <enumeration value="DE"/> <enumeration value="DC"/> <enumeration value="FL"/> <enumeration value="GA"/>  
 <enumeration value="HI"/> <enumeration value="ID"/> <enumeration value="IL"/> <enumeration value="IN"/>  
 <enumeration value="IA"/> <enumeration value="KS"/> <enumeration value="KY"/> <enumeration value="LA"/>  
 <enumeration value="ME"/> <enumeration value="MD"/> <enumeration value="MA"/> <enumeration value="MI"/>  
 <enumeration value="MN"/> <enumeration value="MS"/> <enumeration value="MO"/> <enumeration value="MT"/>  
 <enumeration value="NE"/> <enumeration value="NV"/> <enumeration value="NH"/> <enumeration value="NJ"/>  
 <enumeration value="NM"/> <enumeration value="NY"/> <enumeration value="NC"/> <enumeration value="ND"/>  
 <enumeration value="OH"/> <enumeration value="OK"/> <enumeration value="OR"/> <enumeration value="OA"/>  
 <enumeration value="RI"/> <enumeration value="SC"/> <enumeration value="SD"/> <enumeration value="TN"/>  
 <enumeration value="TX"/> <enumeration value="UT"/> <enumeration value="VT"/> <enumeration value="VI"/>  
 <enumeration value="VA"/> <enumeration value="WA"/> <enumeration value="WV"/> <enumeration value="WI"/>  
 <enumeration value="WY"/> <enumeration value="AA"/> <enumeration value="AE"/> <enumeration value="AP"/>

**Class :** Code

CT Zip Code Character 5 Optional  
 GO-ITS attribute to replace MAILING\_DELIVERY\_ADDRESS.POSTAL\_ZIP and  
 PHYSICAL\_ACTUAL\_ADDRESS.POSTAL\_ZIP and CIVIC\_ADDRESS.POSTAL\_ZIP

A 5-digit postal zip code used by US postal service.

**Class :** Description

CT ADDL ZIP CODE Character 4 Optional  
 GO-ITS attribute

A 4-digit additional zip codes used by US postal service to further specify some US postal addresses.

**Class :** Description

CT LINE 1 TEXT Character 50 Optional

GO-ITS attribute

First line of free format text for an International AddressType.

**Class :** Description

<u>CT LINE 2 TEXT</u>	Character	50	Optional
GO-ITS attribute			

Second line of free format text for an International AddressType.

**Class :** Description

<u>CT LINE 3 TEXT</u>	Character	50	Optional
GO-ITS attribute			

Third line of free format text for an International AddressType.

**Class :** Description

<u>CT Country Name</u>	Character	50	Mandatory
GO-ITS attribute to replace MAILING_DELIVERY_ADDRESS.OTHER_COUNTRY_DESC and PHYSICAL_ACTUAL_ADDRESS.OTHER_COUNTRY_DESC and CIVIC_ADDRESS.OTHER_COUNTRY_DESC			

The name of the country where the address is located. The name may be in English or French.

For CanadaAddress if the CountryName contains a value THEN the value must be = 'Canada'.  
For USAddress if the CountryName contains a value then the value must be = 'U.S.A.', 'USA', 'United States of America' or 'ETATS-UNIS D'AMERIQUE'.

The CountryName for a MilitaryOverseasMailAddress is 'USA' or 'ÉTATS-UNIS' because the US postal service delivers the mail.

**Class :** Description

**Subtype Of** ADDRESS

## Entity : MAILING ADDRESS

### Description :

The description of a Location to which mail can be delivered through the postal system.

<u>Mode Of Delivery Identifier</u>	Character (variable length string)	5	Mandatory
A number identifying a Rural Route, Suburban Service or Mobile Route delivery mode.			

**Class :** Number

**Subtype Of** LOCATION ADDRESS

## Entity : NET ADDRESS

**Description :**

The address for a Virtual Location which can be reached through the Internet or Intranet. Net Addresses are Uniform Resource Identifiers (URIs) using either a textual domain name or numeric IP address, as in the examples below:  
<http://www.gov.on.ca/MBS/english/index.html>  
<ftp://206.253.217.5>  
<mailto:myemail@mydomain.com>

URLs consist of a SCHEME NAME (http, mailto, ftp, etc.), a colon, possibly NET ADDRESS PREFIX TEXT (// for some Schemes), and the NET ADDRESS (e.g. www.go2net.com or myemail@mydomain.com). Because web browsers can fill in the http:// part, only the NET ADDRESS attribute is mandatory in the CDEM.

<u>CT NET ADDR TEXT</u>	Character	255	Optional
GO-ITS attribute			

Text address of the Net Address.

**Class :** Description

**Subtype Of** ELECTRONIC ADDRESS

**Entity : NON CIVIC PHYSICAL ADDRESS****Description :**

The physical address where the place of occupancy is at a rural location specified for a subdivided township, an unsubdivided township or unsurveyed territory. To be used where civic addressing is not yet available or complete.

<u>CT PLAN LOT NUM</u>	Character	4	Optional
GO-ITS attribute			

The identifier of a Lot or Block within a Registered Plan (0 - 9999).

**Class :** Description

<u>CT PLAN LOT TYPE CODE</u>	Character	1	Optional
GO-ITS attribute			

A code that indicates whether the Plan Lot Number is for a Lot or Block on the Registered Plan. Valid plan lot type codes are: B - Block, L - Lot. These codes are available in the CDER Table ONT\_PLAN\_LOT\_TYPE.

**Class :** Code

<u>CT Plan Num</u>	Character	10	Optional
GO-ITS attribute replacing PHYSICAL_ACTUAL_ADDRESS.CONCESSN_OR_PLAN_NUMBER			

A number that identifies the Registered Plan. Format: 2 digits + 1 letter + 1 or more digits.

**Class :** Description

<u>CT Lot Num</u>	Character	10	Optional
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GO-ITS attribute replacing PHYSICAL\_ACTUAL\_ADDRESS.LOT\_OR\_PART\_NUMBER

Domain definition for a number or name that identifies a lot within a geographic township in Ontario.

**Class** : Description

CT Part Lot Desc Character 20 Optional  
GO-ITS attribute that replaces PHYSICAL\_ACTUAL\_ADDRESS.LOT\_OR\_PART\_NUMBER

Domain definition for a description that specifies a part of lot within a geographic township in Ontario.

**Class** : Description

CT Concession Num Character 20 Optional  
GO-ITS attribute replacing PHYSICAL\_ACTUAL\_ADDRESS.CONCESSN\_OR\_PLAN\_NUMBER

Domain definition for concession numbers or names identifying a Concession or Range, a division of a Geographic Township used in Ontario.

**Class** : Description

CT CONCESSION TYPE CODE Character 1 Optional  
GO-ITS attribute

A code that indicates whether the Concession Number is for a Concession (more common) or a Range. Valid concession type codes are: C - Concession, R - Range.

**Class** : Code

CT SECTION NUM Character (variable length string) 10 Optional  
GO-ITS attribute

An identifier that indicates in which Section the address lies. Sections are the first division of some Townships in Northern Ontario.

**Class** : Description

CT QTR SECTION CODE Character 2 Optional  
GO-ITS attribute

A code that indicates in which Quarter Section the address lies. Sections of a Township are divided into Quarter Sections, which are named for primary inter-cardinal compass directions (NE, NW, SE, SW or French equivalents). Quarter Section Code is optional because a property may consist of multiple quarter sections. QtrSectionCode is language dependent.

Codes common in both English and French are: NE and SE. Codes only valid in English are: NW and SW. Codes only valid in French are: NO and SO.

**Class** : Code

CT Upper Tier Municipality Name Character 30 Optional

GO-ITS attribute replacing PHYSICAL\_ACTUAL\_ADDRESS.UPPER\_TIER\_MUNICIP\_NAME

The name of the first legal land division of Ontario, an upper tier or single tier municipality. May be a county, regional municipality, or amalgamated city.

**Class :** Description

CT GEOG TOWNSHIP NAME Character 30 Optional  
GO-ITS attribute

The name of the fundamental land subdivision in the original survey fabric of Ontario.

**Class :** Description

CT Non Civic Addr Text Character 50 Optional  
GO-ITS attribute replacing PHYSICAL\_ACTUAL\_ADDRESS.ADDRESS\_DESCR

Free format address information such as land divisions, Railway Block or Mining Location name or number.

**Class :** Description

**Subtype Of** PHYSICAL ADDRESS

Each NON CIVIC PHYSICAL ADDRESS May be One and only one BUILDING UNIT(s). Exclusive :

## Entity : ORGANIZATION

### Description :

A group of Individuals that has allocated resources. An Organization must represent itself as a unit, with a leader or a single point of contact. Organizations include legally constituted bodies, informally constituted groups, and the hierarchy of administrative units of an Organization. (GO-ITS)

Examples: a corporation, a sole proprietorship, a non-profit association, a family, a committee, a ministry, a division.

CT Name Character (variable length string) 100 Mandatory  
The full text of the name or abbreviation used to identify the Organization.

**Class :** Name

CT ACTIVITY DESCRIPTION Character (variable length string) 1000 Optional  
A narrative description of a business endeavour or other organizational activity. This may include products sold, services provided or machinery or equipment used.

**Class :** Description

CT START DATE Date Optional  
The date when the Organization starts to use this name. (ORGANIZATION NAME)  
The date when the Organization was created, incorporated or began operations. (ORGANIZATION)  
The date when a Party starts to play a Role. (PARTY ROLE)  
The date when a Party to Party association relationship starts. (PARTY RELATIONSHIP)

The date when a Party Role to Party Role association relationship starts. (PARTY ROLE RELATIONSHIP)  
 The date when the identified Party (Role) can be, or will be contacted at the specified address. (PARTY ROLE ADDRESS)  
 The date when the project started. (PROJECT)  
 The point in time when the authority became valid (came into force). (PERSONAL INFO AUTHORITY)  
 The date when the personal information can start being used for this purpose. (PI REASON)

**Class :** Date

CT\_END\_DATE Date Optional  
 The date when the Organization ceases to use this name. (ORGANIZATION NAME)  
 The date when the Organization was dissolved, or ceased operations. (ORGANIZATION)  
 The date when a Party ceases to play a Role. (PARTY ROLE)  
 The date when a Party to Party relationship ends. (PARTY RELATIONSHIP)  
 The date when a Party Role to Party Role relationship ends. (PARTY ROLE RELATIONSHIP)  
 The date when the identified Party Role no longer can be contacted at the specified Address. (PARTY ROLE ADDRESS)  
 The date when the project ended. (PROJECT)  
 The point in time when the authority became invalid (was repealed, replaced, etc.). (PERSONAL INFO AUTHORITY)  
 The date when the personal information can no longer be used for this purpose. (PI REASON)

**Class :** Date

**Subtype Of** PARTY

## Entity : PARTY

### Description :

An Individual or Organization, as identified and described by a program or service. (GO-ITS 27.2)

Program Party Identifier Character (variable length string) 10 Mandatory  
 Any identifier of a Party that is appropriate to the program or service. Identifiers may instead be assigned to subtypes of Party.

**Class :** Identifier

CT\_PREFERRED\_OFFICIAL\_LANGUAGE Character (fixed length array) 2 Mandatory  
 A code that indicates which official language of Ontario the Party prefers to communicate in. Assumes the Party can read and/or write the language, as required for interacting with the Program or Service.

English = en  
 French = fr

**Class :** Code

CT\_PREFERRED\_LANGUAGE\_CODE Character (variable length string) 3 Mandatory  
 A code that indicates which language the Party prefers to communicate in. Assumes the Party can read and/or write the language, as required for interacting with the Program or Service. Programs and Services specify the set of languages in which they can interact with Clients or other Parties.

**Class :** Code

Each PARTY May be One or more PERSONAL INFO AUTHORITY(s). Exclusive :

Each PARTY May be One or more ADDRESS(s). Exclusive :

## Entity : PERSONAL INFO AUTHORITY

### Description :

The particular Authority, such as a statute, regulation, policy, agreement, under which individual or organization information is collected.

### Attributes from CDEM (Authority):

- Jurisdiction Name - The government jurisdiction or other body that mandated this authority. Examples: Canada, Ontario, Ministry of Finance, XYZ Corporation
- Authority Type - Indicates the types of Authority, such as a statute or contract.. Examples from CDEM for type - Statute, Regulation, Policy, Standard, Guideline, Agreement etc (See CDEM Privacy and Security document for definitions of types)
- Title - The official title of the Authority
- Start Datetime - The point in time when the Authority become valid or into force.
- Modified Datetime - The point in time when the Authority was last changed or amended.
- End Datetime - The point in time when the authority became invalid or was replaced
- URL - URL address of Authority document
- ? - Authority Document Text - The full text of the Authority document

CT JURISDICTION NAME Character (variable length string) 30 Mandatory  
The government jurisdiction or other body that mandated this authority. Ex. Canada, Ontario, Ministry of Finance, XYZ Corp.

**Class** : Name

CT AUTHORITY TYPE Character (variable length string) 20 Mandatory  
Indicates the type of authority, such as a statute or a contract. Ex. Statute, Regulation, Policy, Standard, Guideline, Agreement, Permission, Plan, Decision, Architecture, etc.

**Class** : Code

CT AUTHORITY TITLE Character (variable length string) 255 Mandatory  
The official title of the authority.

**Class** : Name

CT START DATE Date Mandatory  
The date when the Organization starts to use this name. (ORGANIZATION NAME)  
The date when the Organization was created, incorporated or began operations. (ORGANIZATION)  
The date when a Party starts to play a Role. (PARTY ROLE)  
The date when a Party to Party association relationship starts. (PARTY RELATIONSHIP)  
The date when a Party Role to Party Role association relationship starts.(PARTY ROLE RELATIONSHIP)  
The date when the identified Party (Role) can be, or will be contacted at the specified address. (PARTY ROLE ADDRESS)  
The date when the project started. (PROJECT)  
The point in time when the authority became valid (came into force). (PERSONAL INFO AUTHORITY)  
The date when the personal information can start being used for this purpose. (PI REASON)

**Class** : Date

CT END DATE Date Optional

The date when the Organization ceases to use this name. (ORGANIZATION NAME)  
 The date when the Organization was dissolved, or ceased operations. (ORGANIZATION)  
 The date when a Party ceases to play a Role. (PARTY ROLE)  
 The date when a Party to Party relationship ends. (PARTY RELATIONSHIP)  
 The date when a Party Role to Party Role relationship ends. (PARTY ROLE RELATIONSHIP)  
 The date when the identified Party Role no longer can be contacted at the specified Address. (PARTY ROLE ADDRESS)  
 The date when the project ended. (PROJECT)  
 The point in time when the authority became invalid (was repealed, replaced, etc.). (PERSONAL INFO AUTHORITY)  
 The date when the personal information can no longer be used for this purpose. (PI REASON)

**Class :** Date

CT MODIFIED DATE Date Optional  
 The point in time when the authority was last changed or amended.

**Class :** Date

CT NET ADDR TEXT Character 255 Optional  
 GO-ITS attribute

Text address of the Net Address.

**Class :** Description

Description Character (variable length string) 2000 Optional  
 Text providing details about something.

**Class :** Description

Each PERSONAL INFO AUTHORITY Must be Give One or more PERSONAL INFO REASON(s). Exclusive :

Each PERSONAL INFO AUTHORITY Must be One or more PARTY(s). Exclusive :

## Entity : PERSONAL INFO REASON

### Description :

Document the reason why personal information is being collected under a particular Authority and for what purpose it is being used.

### Attributes:

PI Collection Reason - Reason why data is being collected.

PI Use - What the PI will be used for.

Date - date when reason or use was applicable

End Date - date when reason or use will no longer be applicable

CT PI COLLECTION REASON Character (variable length string) 100 Mandatory  
 The reason why the personal information is being collected.

**Class :** Description

CT PI USE Character (variable length string) 100 Mandatory

The permissible uses for which the personal information will be used.

**Class :** Description

<u>CT START DATE</u>	Date	Mandatory
The date when the Organization starts to use this name. (ORGANIZATION NAME)		
The date when the Organization was created, incorporated or began operations. (ORGANIZATION)		
The date when a Party starts to play a Role. (PARTY ROLE)		
The date when a Party to Party association relationship starts. (PARTY RELATIONSHIP)		
The date when a Party Role to Party Role association relationship starts.(PARTY ROLE RELATIONSHIP)		
The date when the identified Party (Role) can be, or will be contacted at the specified address. (PARTY ROLE ADDRESS)		
The date when the project started. (PROJECT)		
The point in time when the authority became valid (came into force). (PERSONAL INFO AUTHORITY)		
The date when the personal information can start being used for this purpose. (PI REASON)		

**Class :** Date

<u>CT END DATE</u>	Date	Optional
The date when the Organization ceases to use this name. (ORGANIZATION NAME)		
The date when the Organization was dissolved, or ceased operations. (ORGANIZATION)		
The date when a Party ceases to play a Role. (PARTY ROLE)		
The date when a Party to Party relationship ends. (PARTY RELATIONSHIP)		
The date when a Party Role to Party Role relationship ends. (PARTY ROLE RELATIONSHIP)		
The date when the identified Party Role no longer can be contacted at the specified Address. (PARTY ROLE ADDRESS)		
The date when the project ended. (PROJECT)		
The point in time when the authority became invalid (was repealed, replaced, etc.). (PERSONAL INFO AUTHORITY)		
The date when the personal information can no longer be used for this purpose. (PI REASON)		

**Class :** Date

Each PERSONAL INFO REASON Must be One or more PERSONAL INFO AUTHORITY(s). Exclusive :

## Entity : PHYSICAL ADDRESS

### Description :

The description of a Physical Location anywhere in the world. The Physical Address is used for physically finding a destination. It may be assigned by the municipality or other local authority, or may be "de facto" numbering and naming in common usage.

A Mailing Address is sometimes not sufficient to physically find a destination (for example, a Post Office Box is not a Physical Address.)

<u>Non Address Description</u>	Character (variable length string)	35	Optional
Any additional information that an individual or group may wish to include, beyond the name, to help clarify location (e.g. LAKESIDE ESTATES, WALMSELY FARM).			

**Class :** Description

<u>CT Non Civic Addr Text</u>	Character	50	Optional
GO-ITS attribute replacing PHYSICAL_ACTUAL_ADDRESS.ADDRESS_DESCR			

Free format address information such as land divisions, Railway Block or Mining Location name or number.

**Class :** Description

**Subtype Of** LOCATION ADDRESS

## Entity : PO BOX ADDRESS

**Description :**

A Canada Mailing Address to which mail is delivered at a post office box. The Delivery Installation must be displayed only if there is more than one installation within the POSTAL MUNICIPALITY.

CT PO BOX NUM Character 5 Mandatory  
GO-ITS attribute

A postal office box identifier for the mailing address.

**Class :** Description

CT Type Code Character 4 Optional  
GO-ITS attribute replacing MAILING\_ADDRESS\_ADDRESS.DELIVERY\_INSTALL\_CODE

A code that indicates the category of delivery installation.

The delivery installation type code is language dependent. The valid English codes are: CDO, CMC, LCD, PO, RPO, and STN, while the valid French codes are: BDP, CC, COP, CPC, CSP, PDF, and SUCC.

**Class :** Code

CT Qualifier Name Character 15 Optional  
GO-ITS attribute replacing MAILING\_DELIVERY\_ADDRESS.DELIVERY\_INSTALL\_QUAL

A qualifier name that identifies the delivery installation. Examples: A in "STN A" or MAIN in "STN MAIN".

**Class :** Description

**Subtype Of** MAILING ADDRESS

## Entity : ROUTE ADDRESS

**Description :**

An address that is identified by using postal delivery route service, a street name and/or a civic number.

CT Type Code Character 4 Optional  
GO-ITS attribute replacing MAILING\_ADDRESS\_ADDRESS.DELIVERY\_INSTALL\_CODE

A code that indicates the category of delivery installation.

The delivery installation type code is language dependent. The valid English codes are: CDO, CMC, LCD, PO, RPO, and STN, while the valid French codes are: BDP, CC, COP, CPC, CSP, PDF, and SUCC.

**Class :** Code

CT\_ROUTE\_NUM Character 4 Optional  
GO-ITS attribute

A number that identifies a Route Service in Canada. (ie. 0 - 9999)

**Class :** Description

CT\_SITE\_NUM Character 5 Optional  
GO-ITS attribute

The first-level identifier for a set of mailboxes in a rural area in Canada.

**Class :** Description

CT\_COMPARTMENT\_NUM Character 6 Optional  
GO-ITS attribute

The second-level identifier for a box within a set of mailboxes in a rural area in Canada.

**Class :** Description

CT\_GATEBOX\_NUM Character 5 Optional  
GO-ITS attribute

A number that identifies the mailbox at the gate.

**Class :** Description

CT\_General\_Delivery\_Code Character 2 Optional  
GO-ITS attribute replacing MAILING\_DELIVERY\_ADDRESS.MODE\_OF\_DELIVERY\_CODE

A code that indicates GD for General Delivery or PR for Poste Restante.

**Class :** Code

**Subtype Of** MAILING ADDRESS

**Subtype Of** PHYSICAL ADDRESS

Each ROUTE ADDRESS May be One and only one BUILDING UNIT(s). Exclusive :

## **Entity :** ROUTE DELIVERY ADDRESS

### **Description :**

A Canada mailing address for a location with postal delivery route service (such as RR 3) but no street or gatebox information. The Delivery Installation must be displayed only if there is more than one installation within the postal municipality.

CT ROUTE NUM Character 4 Optional  
GO-ITS attribute

A number that identifies a Route Service in Canada. (ie. 0 - 9999)

**Class :** Description

CT SITE NUM Character 5 Optional  
GO-ITS attribute

The first-level identifier for a set of mailboxes in a rural area in Canada.

**Class :** Description

CT COMPARTMENT NUM Character 6 Optional  
GO-ITS attribute

The second-level identifier for a box within a set of mailboxes in a rural area in Canada.

**Class :** Description

CT General Delivery Code Character 2 Optional  
GO-ITS attribute replacing MAILING\_DELIVERY\_ADDRESS.MODE\_OF\_DELIVERY\_CODE

A code that indicates GD for General Delivery or PR for Poste Restante.

**Class :** Code

CT Type Code Character 4 Optional  
GO-ITS attribute replacing MAILING\_ADDRESS\_ADDRESS.DELIVERY\_INSTALL\_CODE

A code that indicates the category of delivery installation.

The delivery installation type code is language dependent. The valid English codes are: CDO, CMC, LCD, PO, RPO, and STN, while the valid French codes are: BDP, CC, COP, CPC, CSP, PDF, and SUCC.

**Class :** Code

CT Qualifier Name Character 15 Optional  
GO-ITS attribute replacing MAILING\_DELIVERY\_ADDRESS.DELIVERY\_INSTALL\_QUAL

A qualifier name that identifies the delivery installation. Examples: A in "STN A" or MAIN in "STN MAIN".

**Class :** Description

**Subtype Of** MAILING ADDRESS

## Entity : TELEPHONE ADDRESS

### Description :

The Location Description for a Virtual Location which can be reached through the telephone system. May be the number of a telephone, fax, pager, teletypewriter, etc., transmitting voice or data.

CT Area Code Character 3 Optional  
GO-ITS attribute replacing FMF\_GROUP.BUS\_AREA\_CODE\_VOICE and FMF\_GROUP.AREA\_CODE\_FAX

The code used within NANPA telephone systems to route calls to a particular city, region or special service. All NANPA AreaCodes are available in the CDER table NANPA\_AREA.

**Class** : Description

CT Local Num Character 15 Optional  
GO-ITS attribute replacing FMF\_GROUP.BUS\_PHONE\_VOICE and FMF\_GROUP.PHONE\_FAX

A specific telephone number to be dialed, not including the dialing prefix, trunk prefix, Telecom Country Code, Area Code (if any), or Extension Num (if any). It is also known as the subscriber number.

**Class** : Description

CT Extension Num Character 5 Optional  
GO-ITS attribute replacing FMF\_GROUP.BUS\_EXTEN\_VOICE and FMF\_GROUP.EXTEN\_FAX

The number that must be dialed or asked for (if there is a live receptionist) after dialing the LocalNum and being connected.

**Class** : Description

CT TELECOM TYPE CODE Character 1 Optional  
GO-ITS attribute

A code that indicates the method of telecommunication. Valid TelecomTypes are: F - Fax, M - Mobile phone, P - Pager, T - Telephone, Y - TTY.

**Class** : Code

CT TELECOM COUNTRY CODE Character 3 Optional  
GO-ITS attribute

A code that is required for international telephone calls to reach a telephone system. Codes are defined by the International Telecommunication Union and are commonly known as country codes.

**Class** : Code

CT DISPLAY PHONE NUM Character 30 Optional  
GO-ITS attribute

A telephone number formatted for visual presentation. Examples: 1-800-ONTARIO, (613) 333-6666, +31 (0)42 123 4567 ext. 90. May include any combination of dialing prefixes, Telephone Number attributes, spaces, punctuation, alphabetic

characters, and extra characters that complete a word.

**Class :**

**Subtype Of** ELECTRONIC ADDRESS

## 6 Addendum

Changes to the Common Table model report since the original Aug 13, 2006 report. Changes are based on input from the LIO & NRVIS implementation teams and the Information Access Section

- Section 3.3.2 - Added Notice of Collection Provided to Client (Yes/No) Attribute. This field is designed to capture if a client has been informed of the fact (orally or via printed form) that their personal information is being collected for a certain reason. Reason: Legal requirement, addition suggested by Information Access Section.
- Appendix 5.4 Logical Model Design View: CT METHOD NAME, CT METHOD DESCRIPTION attributes combined into one attribute called Method Description in the LIO and NRVIS model. Reason: Simplifies model.
- Appendix 5.4 Logical Model Design View: Source Identifier attribute dropped from the LIO and NRVIS model. Reason: Not required.
- Appendix 5.4 Logical Model Design View: LIO & NRVIS model added Concrete Class Short Name attribute. Reason: Required for the physical model.
- Geographic Unit Type (GUT) Number should be added to GEOG\_UNIT – as in the new SNIF report.
- Concrete Class Short Name should be added GEOG\_UNIT and GEOG\_UNIT\_AND\_JUSTIF – as in the new SNIF report.
- Source Identifier – removed from the model since no rationale to keep it.
- Appendix 5.5 Current vs Proposed Common Tables – Mapping of Tables and Attributes: added a third column. The left hand column captures the current attribute names used in OLIV (Reference: Common Tables SNIF Report V1). The middle column captures the new logical model design view data attribute names, and the right column captures the new attribute names used in the new Common Tables SNIF Report V2.