

## **RETS Change Proposal 60: Changes for Localizable Clients**

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### **1. Synopsis**

This change request consists of two main sections. The first section consists of a set of changes that are designed to enhance the functionality of the RETS 1.7 specification. These enhancements are geared towards enabling a localized client. The second section consists of a set of additional metadata tables that are designed to provide localization information to clients. These enhancements are geared towards enabling a fully localizable RETS Update or Query client.

### **2. Rationale**

We have been striving to create RETS Update Client that is localizable so that Realtors from different regions of large MLS providers do not have to see and enter data into fields that are not applicable to their region. Furthermore, we wanted to build a client that was able to regionalize terminology and labels that Realtors see on the screen.

When looking at what is available in the specification as it stands today, we realized that this goal was not fully attainable unless some changes were made to the specification. With that in mind, we set out to build it.

With all the changes that are presented below, we were able to build a RETS Update Client that is fully localizable and provide users with a good user experience and allow them to enter their listing data in the most effective way possible. This client is now in alpha testing.

### 3. Proposal

This proposal affects several sections of the RETS 1.7d5 document as follows.

#### 3.1 Section 11.3.2 – Additional field to Class Metadata

In order to provide a starting point for localization, we propose to add a new field to the Class Metadata that indicates which SystemName is used to determine the Locale of a record for any Class.

**Table 11-7.1** Metadata Content – Extensions – Class

Metadata Field	Content Type	Description
X-MRIS_LocaleLookupField	1*32ALPHANUM	The SystemName of the field in the METADATA-TABLE that acts as the Localization field for this Class. The value in this field can be used to lookup the locale of a Class in METADTA-LOCALE_LOOKUP.

#### 3.2 Additional Localization Metadata

The final proposed change is to add all of the following new metadata to the specification in order to allow for fully localizable clients to present data in a way that the MLS providing the RETS Server would like and that it's Realtors expect to see.

### **METADATA-LOCALE\_LOOKUP**

The METADATA-TABLE field that determines the Locale of a Class is identified by the SystemName stored in the METADATA-CLASS X-MRIS\_LocaleLookupField. For each record returned by a class, the locale-id can be found by looking up the value stored in this field within this metadata.

This metadata defines the set of SystemNames that are to be suppressed for specific locales.

The Locale Lookup metadata starts with a <METADATA-LOCALE\_LOOKUP> tag with Resource, Class, Version, and Date attributes. This is followed by a <COLUMNS> section, which contains the name of the fields as defined in Table 11-34, followed by the <DATA> section, which contains the actual field information. The Locale Lookup metadata has the following format:

```
<METADATA-LOCALE_LOOKUP SP Resource="resource-id" SP  
Class="class-id" SP Version="locale-lookup-version" SP Date="locale-lookup-  
date"> ↵  
<COLUMNS>→ locale-lookup-field *(→locale-lookup-field)→</COLUMNS> ↵  
*(<DATA>→ locale-lookup-data *(→ locale-lookup -data)→</DATA> ↵)  
</METADATA-LOCALE_LOOKUP> ↵
```

*resource-id ::= 1\*32ALPHANUM*

This value MUST be a ResourceID found in the Resource metadata. It is the Resource to which the Classes belong.

*class-id ::= 1\*32ALPHANUM*

This value MUST be a ClassName found in the Class metadata for this Resource. It is the Class to which the Locale Lookup applies.

*locale-lookup-version ::= 1\*2DIGITS . 1\*2DIGITS . 1\*5DIGITS*

This is the version number of this Locale Lookup metadata. The convention used is a “<major>.<minor>.<release>” numbering scheme. Every time this Locale Lookup metadata changes the version number should be increased.

*locale-lookup-date ::= DATE*

The latest change date of this Locale Lookup metadata.

*locale-lookup-field ::= <Field Name from Table 11-34>*

*locale-lookup-data ::= <valid value as defined in Table 11-34>*

An example Table section follows:

GetMetadata request:

```
Type: METADATA-LOCALE_LOOKUP  
ID Format: Resource : Class  
ID Example: Property : RES
```

Compact reply:

```
<METADATA-LOCALE_LOOKUP Resource="Property" Class="RES"
Version="1.00.000" Date="Sat, 20 Mar 2002 12:03:38 GMT" >
<COLUMNS>→MetadataEntryId→LocaleLookup→Locale→</COLUMNS>
<DATA>→10211123450→MONTGOMERY→MONTGOMERY-MD→</DATA>
</METADATA-LOCALE_LOOKUP>
```

**Table 11-34** Metadata Content – Locale Lookup

Metadata Field	Content Type	Description
MetadataEntryId	1*32ALPHANUM	A value that never changes as long as the semantic definition of this field remains unchanged.
LocaleLookup	1*32ALPHANUM	The lookup key that is used to determine what the Locale of a Class record is. Data returned for a class in the field specified by metadata METADATA-CLASS X-MRIS_LocaleLookupField MUST be found in this table if a system is to behave in a Localized manner.
LocaleName	1*32ALPHANUM	The Locale of the Class record.

## METADATA-LOCALE

This metadata defines the total set of Locales that are Active for a given Class. This the parent metadata definition for all the other METADATA-LOCALE\_\* metadata.

The Locale metadata starts with a <METADATA-LOCALE> tag with Resource, Class, Version, and Date attributes. This is followed by a <COLUMNS> section, which contains the name of the fields as defined in Table 11-35, followed by the <DATA> section, which contains the actual field information. The Locale metadata has the following format:

```
<METADATA-LOCALE SP Resource="resource-id" SP Class="class-id" SP
Version="locale-version" SP Date="locale-date"> ↵
<COLUMNS>→ locale-field *(→locale-field)→</COLUMNS> ↵
*(<DATA>→ locale-data *(→ locale -data)→</DATA> ↵)
</METADATA-LOCALE> ↵
```

*resource-id ::= 1\*32ALPHANUM*

This value MUST be a ResourceID found in the Resource metadata. It is the Resource to which the Classes belong.

*class-id ::= 1\*32ALPHANUM*

This value MUST be a ClassName found in the Class metadata for this Resource. It is the Class to which the Locale applies.

*locale-version ::= 1\*2DIGITS . 1\*2DIGITS . 1\*5DIGITS*

This is the version number of this Locale metadata. The convention used is a “<major>.<minor>.<release>” numbering scheme. Every time this Locale metadata changes the version number should be increased.

*locale-date ::= DATE*

The latest change date of this Locale metadata.

*locale-field ::= <Field Name from Table 11-35>*

*locale-data ::= <valid value as defined in Table 11-35>*

An example Table section follows:

GetMetadata request:

Type: METADATA-LOCALE  
 ID Format: Resource : Class  
 ID Example: Property : RES

Compact reply:

```
<METADATA-LOCALE Resource="Property" Class="RES" Version="1.00.000" Date=
"Sat, 20 Mar 2002 12:03:38 GMT" >
<COLUMNS>→MetadataEntryId→Locale→TableSuppressionVersion→TableSuppressionDate→TableTranslationVersion→TableTranslationDate→LookupInformationVersion→LookupInformationDate→</COLUMNS>
<DATA>→10211123450→MONTGOMERY-MD→1.00.000→Thu, 3 Feb 2005 20:35:15 GMT→1.00.000→Thu, 3 Feb 2005 20:35:15 GMT→1.00.000→Thu, 3 Feb 2005 20:35:15 GMT→</DATA>
</METADATA-LOCALE>
```

**Table 11-35** Metadata Content – Locale

Metadata Field	Content Type	Description
MetadataEntryId	1*32ALPHANUM	A value that never changes as long as the semantic definition of this field remains unchanged.
LocaleName	1*32ALPHANUM	The name of the Locale of the Class record.
TableSuppressionVersion	1*2DIGIT . 1*2DIGIT . 1*5DIGIT	The latest version of any of the LocaleTableSuppression metadata. The convention used is a “<major>.<minor>.<release>” numbering scheme. The version number is advisory only.
TableSuppressionDate	DATE	The latest date on which any of the

		LocaleTableSuppression metadata was last changed. Clients MAY rely on this date for cache management.
TableTranslationVersion	1*2DIGIT . 1*2DIGIT . 1*5DIGIT	The latest version of any of the LocaleTableTranslation metadata. The convention used is a “<major>.<minor>.<release>” numbering scheme. The version number is advisory only.
TableTranslationDate	DATE	The latest date on which any of the LocaleTableTranslation metadata was last changed. Clients MAY rely on this date for cache management.
LookupInformationVersion	1*2DIGIT . 1*2DIGIT . 1*5DIGIT	The latest version of any of the LocaleLookupInformation metadata. The convention used is a “<major>.<minor>.<release>” numbering scheme. The version number is advisory only.
LookupInformationDate	DATE	The latest date on which any of the LocaleLookupInformation metadata was last changed. Clients MAY rely on this date for cache management.

## METADATA-LOCALE\_TABLE\_SUPPRESSION

This metadata defines the set of SystemNames that are to be suppressed for specific locales.

The Locale Table Suppression metadata starts with a <METADATA-LOCALE\_TABLE\_SUPPRESSION> tag with Resource, Class, Version, and Date attributes. This is followed by a <COLUMNS> section, which contains the name of the fields as defined in Table 11-29, followed by the <DATA> section, which contains the actual field information. The Locale Table Suppression metadata has the following format:

```

<METADATA-LOCALE_TABLE_SUPPRESSION SP Resource="resource-id"
SP Class="class-id" SP Locale="locale-id" Version="locale-table-suppression-
version" SP Date="locale-table-suppression-date"> ↵
<COLUMNS>→ locale-table-suppression-field *(→locale-table-suppression-
field)→</COLUMNS> ↵
*(<DATA>→ locale-table-suppression-data *(→ locale-table-suppression -
data)→</DATA> ↵)
</METADATA-LOCALE_TABLE_SUPPRESSION> ↵

```

*resource-id ::= 1\*32ALPHANUM*

This value MUST be a ResourceID found in the Resource metadata. It is the Resource to which the Classes belong.

*class-id ::= 1\*32ALPHANUM*

This value MUST be a ClassName found in the Class metadata for this Resource. It is the Class to which the Locale Table Suppression applies.

*locale-id ::= 1\*32ALPHANUM*

This value MUST be a Locale found in the Locale metadata for this Class. It is the Locale to which the Locale Table Suppression applies.

*locale-table-suppression-version ::= 1\*2DIGITS . 1\*2DIGITS . 1\*5DIGITS*

This is the version number of this Locale Table Suppression metadata. The convention used is a “<major>.<minor>.<release>” numbering scheme. Every time this Locale Table Suppression metadata changes the version number should be increased.

*locale-table-suppression-date ::= DATE*

The latest change date of this Locale Table Suppression metadata.

*locale-table-suppression-field ::= <Field Name from Table 11-29>*

*locale-table-suppression-data ::= <valid value as defined in Table 11-29>*

An example Table section follows:

GetMetadata request:

Type: METADATA-LOCALE\_TABLE\_SUPPRESSION  
ID Format: Resource : Class : Locale  
ID Example: Property : RES : MONTGOMERY-MD

Compact reply:

```
<METADATA-LOCALE_TABLE_SUPPRESSION Resource="Property" Class="RES"
Locale="MONTGOMERY-MD" Version="1.00.000" Date="Sat, 20 Mar 2002 12:03:38
GMT" >
<COLUMNS>→MetadataEntryId→SystemName→</COLUMNS>
<DATA>→10211123450→SoilType→</DATA>
</METADATA-LOCALE_TABLE_SUPPRESSION>
```

**Table 11-29** Metadata Content – Locale Table Suppression

Metadata Field	Content Type	Description
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MetadataEntryId	1*32ALPHANUM	A value that never changes as long as the semantic definition of this field remains unchanged.
SystemName	1*32ALPHANUM	The SystemName that is to be suppressed for the Locale.

## METADATA-LOCALE\_TABLE\_TRANSLATION

This metadata defines the set of Tables that are to be translated for specific locales.

The Locale Table Translation metadata starts with a <METADATA-LOCALE\_TABLE\_TRANSLATION> tag with Resource, Class, Version, and Date attributes. This is followed by a <COLUMNS> section, which contains the name of the fields as defined in Table 11-33, followed by the <DATA> section, which contains the actual field translation information. The Locale Table Translation metadata has the following format:

```

<METADATA-LOCALE_TABLE_TRANSLATION SP Resource="resource-id"
SP Class="class-id" SP Locale="locale-id" SP Version="locale-table-
translation-version" SP Date="locale-table-translation-date"> ↵
<COLUMNS>→ locale-table-translation-field *(→locale-table-translation-
field)→</COLUMNS> ↵
*(<DATA>→ locale-table-translation-data *(→ locale-table-translation -
data)→</DATA> ↵)
</METADATA-LOCALE_TABLE_TRANSLATION> ↵

```

*resource-id ::= 1\*32ALPHANUM*

This value MUST be a ResourceID found in the Resource metadata. It is the Resource to which the Classes belong.

*class-id ::= 1\*32ALPHANUM*

This value MUST be a ClassName found in the Class metadata for this Resource. It is the Class to which the Locale Table Translation applies.

*locale-id ::= 1\*32ALPHANUM*

This value MUST be a Locale found in the Locale metadata for this Class. It is the Locale to which the Locale Table Translation applies.

*locale-table-translation-version ::= 1\*2DIGITS . 1\*2DIGITS . 1\*5DIGITS*

This is the version number of this Locale Table Translation metadata. The convention used is a “<major>.<minor>.<release>” numbering scheme. Every time this Locale Table translation metadata changes the version number should be increased.

*locale-table-translation-date ::= DATE*

The latest change date of this Locale Table Translation metadata.

*locale-table-translation-field ::= <Field Name from Table 11-33>*

*locale-table-translation-data ::= <valid value as defined in Table 11-33>*

An example Table section follows:

GetMetadata request:

Type: METADATA-LOCALE\_TABLE\_TRANSLATION  
 ID Format: Resource : Class : Locale  
 ID Example: Property : RES : MONTGOMERY-MD

Compact reply:

```
<METADATA-LOCALE_TABLE_TRANSLATION Resource="Property" Class="RES"
Locale="MONTGOMERY-MD" Version="1.00.000" Date= "Sat, 20 Mar 2002 12:03:38
GMT" >
<COLUMNS>→MetadataEntryId→SystemName→→→</COLUMNS>
<DATA>→10511123455→Patio→Linnai→Linnai→</DATA>
<DATA>→10511123457→Bungalo→Flat→Flat→</DATA>
</METADATA-LOCALE_TABLE_TRANSLATION>
```

**Table 11-33** Metadata Content – Locale Table Translation

Metadata Field	Content Type	Description
MetadataEntryId	1*32ALPHANUM	A value that never changes as long as the semantic definition of this field remains unchanged.
SystemName	1*32ALPHANUM	The SystemName that is to have it’s column names translated for the Locale.
LongName	1*128TEXT	The localized long name of the field as it is known to the user.
ShortName	1*32TEXT	The localized short name of the field as it is known to the user.

## METADATA-LOCALE\_LOOKUP\_INFORMATION

This metadata defines the set of Lookups that have either suppression or translation localization metadata defined for specific locales.

The Locale Lookup Information metadata starts with a <METADATA-LOCALE\_LOOKUP\_INFORMATION> tag with Resource, Class, Version, and Date attributes. This is followed by a <COLUMNS> section, which contains the name of the fields as defined in Table 11-30, followed by the <DATA> section, which contains the actual field information. The Locale Lookup Information metadata has the following format:

```
<METADATA-LOCALE_LOOKUP_INFORMATION SP Resource="resource-  
id" SP Class="class-id" SP Locale="locale-id" SP Version="locale-lookup-  
information-version" SP Date="locale-lookup-information-date"> ↵  
<COLUMNS>→ locale-lookup-information-field *(→locale-lookup-information-  
field)→</COLUMNS> ↵  
*(<DATA>→ locale-lookup-information-data *(→ locale-lookup-information -  
data)→</DATA> ↵)  
</METADATA-LOCALE_LOOKUP_INFORMATION> ↵
```

*resource-id ::= 1\*32ALPHANUM*

This value MUST be a ResourceID found in the Resource metadata. It is the Resource to which the Classes belong.

*class-id ::= 1\*32ALPHANUM*

This value MUST be a ClassName found in the Class metadata for this Resource. It is the Class to which the Locale Lookup Information applies.

*locale-id ::= 1\*32ALPHANUM*

This value MUST be a Locale found in the Locale metadata for this Class. It is the Locale to which the Locale Lookup Information applies.

*locale-lookup-information-version ::= 1\*2DIGITS . 1\*2DIGITS . 1\*5DIGITS*

This is the version number of this Locale Lookup Information metadata. The convention used is a “<major>.<minor>.<release>” numbering scheme. Every time this Locale Lookup Information metadata changes the version number should be increased.

*locale-lookup-information-date ::= DATE*

The latest change date of this Locale Lookup Information metadata.

*locale-lookup-information-field ::= <Field Name from Table 11-30>*

*locale-lookup-information-data ::= <valid value as defined in Table 11-30>*

An example Table section follows:

GetMetadata request:

Type: METADATA-LOCALE\_LOOKUP\_INFORMATION  
 ID Format: Resource : Class : Locale  
 ID Example: Property : RES : MONTGOMERY-MD

Compact reply:

```
<METADATA-LOCALE_LOOKUP_INFORMATION Resource="Property" Class="RES"
Locale="MONTGOMERY-MD" Version="1.00.000" Date="Sat, 20 Mar 2002 12:03:38
GMT" >
<COLUMNS>→MetadataEntryId→LookupName→SuppressionsExist→TranslationsExist
→LookupTypeSuppressionVersion→LookupTypeSuppressionDate→LookupTypeTransl
ationVersion→LookupTypeTranslationDate→</COLUMNS>
<DATA>→10311123451→Amenities→1→1→1.00.000→Thu, 3 Feb 2005 20:35:15 GMT
→1.00.000→Thu, 3 Feb 2005 20:35:15 GMT →</DATA>
</METADATA-LOCALE_LOOKUP_INFORMATION>
```

**Table 11-30** Metadata Content – Locale Lookup Information

Metadata Field	Content Type	Description
MetadataEntryId	1*32ALPHANUM	A value that never changes as long as the semantic definition of this field remains unchanged.
LookupName	1*32ALPHANUM	The LookupName that has suppression metadata.
SuppressionsExist	BOOLEAN	If true, the LookupName has suppression metadata defined for it.
TranslationsExist	BOOLEAN	If true, the LookupName has translation metadata defined for it.
LookupTypeSuppressionVersion	1*2DIGIT . 1*2DIGIT . 1*5DIGIT	The latest version of any of the LocaleLookupTypeSuppression metadata. The convention used is a “<major>.<minor>.<release>” numbering scheme. The version number is advisory only.
LookupTypeSuppressionDate	DATE	The latest date on which any of the LocaleLookupTypeSuppression metadata was last changed. Clients MAY rely on this date for cache management.
LookupTypeTranslationVersion	1*2DIGIT .	The latest version of any of the LocaleLookupTypeTranslation metadata. The

	1*2DIGIT . 1*5DIGIT	convention used is a “<major>.<minor>.<release>” numbering scheme. The version number is advisory only.
LookupTypeTranslationDate	DATE	The latest date on which any of the LocaleLookupTypeTranslation metadata was last changed. Clients MAY rely on this date for cache management.

## METADATA-LOCALE\_LOOKUP\_TYPE\_SUPPRESSION

This metadata defines the set of Lookup Types that are to be suppressed for specific locales.

The Locale Lookup Type Suppression metadata starts with a <METADATA-LOCALE\_LOOKUP\_TYPE\_SUPPRESSION> tag with Resource, Class, Version, and Date attributes. This is followed by a <COLUMNS> section, which contains the name of the fields as defined in Table 11-31, followed by the <DATA> section, which contains the actual field suppression information. The Locale Lookup Type Suppression metadata has the following format:

```

<METADATA-LOCALE_LOOKUP_TYPE_SUPPRESSION SP
Resource="resource-id" SP Class="class-id" SP Locale="locale-id" SP
Lookup="lookup-id" SP Version="locale-lookup-type-suppression-version" SP
Date="locale-lookup-type-suppression-date"> ↵
<COLUMNS>→ locale-lookup-type-suppression-field *(→locale-lookup-type-
suppression-field)→</COLUMNS> ↵
*(<DATA>→ locale-lookup-type-suppression-data *(→ locale-lookup-type-
suppression -data)→</DATA> ↵)
</METADATA-LOCALE_LOOKUP_TYPE_SUPPRESSION> ↵

```

*resource-id ::= 1\*32ALPHANUM*

This value MUST be a ResourceID found in the Resource metadata. It is the Resource to which the Classes belong.

*class-id ::= 1\*32ALPHANUM*

This value MUST be a ClassName found in the Class metadata for this Resource. It is the Class to which the Locale Lookup Type Suppression applies.

*locale-id ::= 1\*32ALPHANUM*

This value MUST be a Locale found in the Locale metadata for this Class. It is the Locale to which the Locale Lookup Type Suppression applies.

*lookup-id ::= 1\*32ALPHANUM*

This value MUST be a LookupName found in the LocaleLookup metadata for this Resource. It is the Lookup to which the suppression data applies.

*locale-lookup-type-suppression-version ::= 1\*2DIGITS . 1\*2DIGITS . 1\*5DIGITS*

This is the version number of this Locale Lookup Type Suppression metadata. The convention used is a “<major>.<minor>.<release>” numbering scheme. Every time this Locale Lookup Type suppression metadata changes the version number should be increased.

*locale-lookup-type-suppression-date ::= DATE*

The latest change date of this Locale Lookup Type Suppression metadata.

*locale-lookup-type-suppression-field ::= <Field Name from Table 11-31>*

*locale-lookup-type-suppression-data ::= <valid value as defined in Table 11-31>*

An example Table section follows:

GetMetadata request:

Type: METADATA-LOCALE\_LOOKUP\_TYPE\_SUPPRESSION  
 ID Format: Resource : Class : Locale : Lookup  
 ID Example: Property : RES : MONTGOMERY-MD : Amenities

Compact reply:

```
<METADATA-LOCALE_LOOKUP_TYPE_SUPPRESSION Resource="Property"
Class="RES" Locale="MONTGOMERY-MD" Lookup="Amenities" Version="1.00.000"
Date= "Sat, 20 Mar 2002 12:03:38 GMT" >
<COLUMNS>→MetadataEntryId→Value→</COLUMNS>
<DATA>→10411123452→10→</DATA>
<DATA>→10411123453→25→</DATA>
</METADATA-LOCALE_LOOKUP_TYPE_SUPPRESSION>
```

**Table 11-31** Metadata Content – Locale Lookup Type Suppression

Metadata Field	Content Type	Description
MetadataEntryId	1*32ALPHANUM	A value that never changes as long as the semantic definition of this field remains unchanged.
Value	1*32ALPHANUM	The Value that is to be suppressed for the Locale.

## METADATA-LOCALE\_LOOKUP\_TYPE\_TRANSLATION

This metadata defines the set of Lookup Types that are to be translated for specific locales.

The Locale Lookup Type Translation metadata starts with a <METADATA-LOCALE\_LOOKUP\_TYPE\_TRANSLATION> tag with Resource, Class, Version, and Date attributes. This is followed by a <COLUMNS> section, which contains the name of the fields as defined in Table 11-32, followed by the <DATA> section, which contains the actual field translation information. The Locale Lookup Type Translation metadata has the following format:

```
<METADATA-LOCALE_LOOKUP_TYPE_TRANSLATION SP
Resource="resource-id" SP Class="class-id" SP Locale="locale-id" SP
Lookup="lookup-id" SP Version="locale-lookup-type-translation-version" SP
Date="locale-lookup-type-translation-date"> ↵
<COLUMNS>→ locale-lookup-type-translation-field *(→locale-lookup-type-
translation-field)→</COLUMNS> ↵
*(<DATA>→ locale-lookup-type-translation-data *(→ locale-lookup-type-
translation -data)→</DATA> ↵)
</METADATA-LOCALE_LOOKUP_TYPE_TRANSLATION> ↵
```

*resource-id ::= 1\*32ALPHANUM*

This value MUST be a ResourceID found in the Resource metadata. It is the Resource to which the Classes belong.

*class-id ::= 1\*32ALPHANUM*

This value MUST be a ClassName found in the Class metadata for this Resource. It is the Class to which the Locale Lookup Type Translation applies.

*locale-id ::= 1\*32ALPHANUM*

This value MUST be a Locale found in the Locale metadata for this Class. It is the Locale to which the Locale Lookup Type Translation applies.

*lookup-id ::= 1\*32ALPHANUM*

This value MUST be a LookupName found in the LocaleLookup metadata for this Resource. It is the Lookup to which the translation data applies.

*locale-lookup-type-translation-version ::= 1\*2DIGITS . 1\*2DIGITS . 1\*5DIGITS*

This is the version number of this Locale Lookup Type Translation metadata. The convention used is a “<major>.<minor>.<release>” numbering scheme. Every time this Locale Lookup Type translation metadata changes the version number should be increased.

*locale-lookup-type-translation-date ::= DATE*

The latest change date of this Locale Lookup Type Translation metadata.

*locale-lookup-type-translation-field ::= <Field Name from Table 11-32>*

*locale-lookup-type-translation-data ::= <valid value as defined in Table 11-32>*

An example Table section follows:

GetMetadata request:

Type: METADATA-LOCALE\_LOOKUP\_TYPE\_TRANSLATION  
 ID Format: Resource : Class : Locale : Lookup  
 ID Example: Property : RES : MONTGOMERY-MD : Amenities

Compact reply:

```
<METADATA-LOCALE_LOOKUP_TYPE_TRANSLATION Resource="Property"
Class="RES" Locale="MONTGOMERY-MD" Lookup="Amenities" Version="1.00.000"
Date= "Sat, 20 Mar 2002 12:03:38 GMT" >
<COLUMNS>→MetadataEntryId→Value→LongValue→ShortValue→</COLUMNS>
<DATA>→10411123452→11→Club House→Club→</DATA>
<DATA>→10411123453→26→Swimming Hole→Swim→</DATA>
</METADATA-LOCALE_LOOKUP_TYPE_TRANSLATION>
```

**Table 11-32** Metadata Content – Locale Lookup Type Translation

Metadata Field	Content Type	Description
MetadataEntryId	1*32ALPHANUM	A value that never changes as long as the semantic definition of this field remains unchanged.
Value	1*32ALPHANUM	The Value that is to be translated for the Locale.
LongValue	1*128TEXT	The localized long value of the field as it is known to the user.
ShortValue	1*32TEXT	The localized short value of the field as it is known to the user.

#### **4. Development Impact**

This proposal does not change anything or remove anything from the existing specification, it merely adds additional metadata fields to existing metadata tables and some additional metadata tables.

As such, development impact depends on current RETS client and server implementations, but should not have any impact on future RETS client and server implementations. Each existing RETS server and client, prior to passing of this proposal, have the option to change accordingly to be RETS compliant. Future RETS server and client implementation after approval of RETS 1.7 MUST follow the RETS 1.8 standard.

#### **5. Compatibility**

Servers that do not implement any of the additional metadata tables will remain backwards compatible to RETS 1.7. Current servers that add the additional metadata fields will also remain backwards compatible to RETS 1.7 since the specification allows for additional fields to be returned by servers. Current servers that want to become RETS 1.8 compliant MUST implement all of the additional metadata tables and fields.

#### **6. Proof/Need of Concept Examples**

MRIS Keystone 2.0 – In Alpha Testing Now.

This application is fully functional, fully localizable and is using all of the above features to accomplish this functionality.