RETS 1.7.2 Server – Product Release Notice

Last Updated on March 24, 2010

Notice Overview

This notice highlights the changes between Rapattoni Corporation's current RETS 1.5 server and new RETS 1.7.2 server that are not otherwise specified in the RETS 1.7.2 specification. In addition, functionality carried over from RETS 1.5 is also provided in this notice.

CHANGES IN RETS 1.7.2

Property ResourceID Metadata Removal

In an effort to better represent the relational databases that make up our MLS data, most SystemNames found in Parent ResourceIDs are being removed that could otherwise be obtained in the Child ResourceID. As such, the following SystemNames are being removed from the Property ResourceId:

- ListingAgentAddress
- ListingAgentContactPhone
- ListingAgentEmail
- ListingAgentFax
- ListingAgentOfficePhone
- ListingCoAgentFirstName
- ListingCoAgentLastName
- ListingCoAgentPhone
- ListingCoOfficePhoneComplete
- ListingOfficeAddressComplete
- ListingOfficePhoneComplete
- ListingOfficeStreetAddress
- ListingOfficeStreetCity
- ListingOfficeStreetState
- ListingOfficeStreetZipCode
- Nickname
- SellingAgentAddress
- SellingAgentContactPhone
- SellingAgentEmailAddress
- SellingAgentFax
- SellingAgentFirstName
- SellingAgentFirstName
- SellingAgentLastName
- SellingAgentLastName
- SellingAgentOfficePhone
- SellingAgentWebPageAddress
- SellingAgentWebPageAddress
- SellingOfficePhoneComplete

The SystemNames can still be retrieved via the ActiveAgent, Agent, or Office ResourceIDs.

Property ResourceID Metadata Changes

With the addition of the ListingRid SystemName (see below for additional information), we are changing the assignment of the ListingID StandardName from the MLNumber SystemName to ListingRid to comply with the RETS DTD StandardName definition for ListingID.

NOTE: If you require access to a SystemName that you are presently unable to access you will need to contact the MLS and request access to it.

Metadata Additions

New SystemNames are being added to many of existing ResourceIDs. These additions are detailed below.

For more information on each of the new SystemNames please refer to the SystemName's SearchHelpID entry in METADATA-SEARCH_HELP.

NOTE: If you require access to a SystemName that you are presently unable to access you will need to contact the MLS and request access to it. In addition, there is no guarantee that an MLS' RETS metadata will support one or more of the ResourceIDs specified below.

Property, PropertyArchived, PropertyDeleted, PropertyWithheld, History, OpenHouse, and Tour ResourceIDs

SystemNames being added to the metadata for the Property, PropertyArchived, PropertyDeleted, PropertyWithheld, History, OpenHouse, and Tour ResourceIDs are as follows:

- ListingRid – The row ID assigned to the listing's record when initially entered in Rapattoni's MLS system.
- MLSOrigin – The originating MLS of the listing.

PropertyWithheld ResourceID

The SystemName being added to the metadata for the PropertyWithheld ResourceID is as follows:

- OfficeIDX – Indicates if the office participates in Internet Data eXchange (IDX).

ActiveAgent and Agent ResourceIDs

SystemNames being added to the metadata for the ActiveAgent and Agent ResourceIDs are as follows:

- IsActive – Indicates if the member is active in the MLS.
- Phone<Type Description> – Each MLS establishes a list of possible Phone Types that may be associated with a member's profile. SystemNames will be dynamically created, one for each Phone Type, and will be prefaced with "Phone."
    - e.g., PhoneCellular
- PictureCount – The number of pictures loaded in the MLS for a member.

Office ResourceID

SystemNames being added to the metadata for the Office ResourceID are as follows:

- BannerCount – The number of banner picture images loaded in the MLS for an office.
- IsActive – Indicates if the office is active in the MLS.
- Phone<Type Description> – Each MLS establishes a list of possible Phone Types that may be associated with an office's profile. SystemNames will be dynamically created, one for each Phone Type, and will be prefaced with "Phone."
    - e.g., PhoneOffice

Metadata Changes to SystemNames Mapped to MLS Amenities
Along with changes that may have been made to an MLS amenity fields in METADATA-LOOKUP_TYPE, there may have also been changes made to the amenity's SytemName record in METADATA-TABLE. Changes to an amenity SystemName may include one or all of the following: MaximumLength, DataType, Precision, Interpretation, Alignment, LookupName, MaxSelect, or Maximum.

Consolidation of PropertyDeleted ClassNames
The previously available ClassNames within the PropertyDeleted ResourceID will be consolidated into a single ClassName value of ALL.

Property KeyField Change Affecting the GetObject transaction *resource-entity*
The SystemName provided as the KeyField value for the Property ResourceID is changing to ListingRid from MLNumber. As such, all objects pulled from the Property ResourceID using the GetObject transaction will have to use ListingRid as the resource-entity value instead. For more information on how to format a GetObject request argument see section 5.3 of the RETS 1.7.2 specification.

FEATURES CARRIED OVER FROM RETS 1.5 TO 1.7.2

Rigorous Query String Syntax
In accordance with the Query language BNF in Section 7.7.1 on page 7-8 we will be more rigorous in the methods in which we accept Queries. Query criteria that are a *fieldvalue* of lookup-list will need to be formatted either like a *lookup-or*, *lookup-not*, or *lookup-and*. Query criteria that are a *field-value* of string-list or *string-literal* will need to be formatted either like a *string*, *string-eq*, *string-start*, *string-contains*, *string-char*, or *string-literal*. Query criteria that are a *field-value* of range-list will need to be formatted either like a *range-list*, or *range*. As noted in the Query language BNF, a *field-value* of period or number will be treated like a *field-value* of range-list.

Implementation of Metadata-Foreign_Key
METADATA-FOREIGN_KEYS will continue to be utilized in our RETS 1.7.2 server. This Metadata is described in detail in Section 11.2.3 on page 11-8.

Elimination of Metadata-EditMask
METADATA-EDITMASK will continue to not be utilized in our RETS 1.7.2 server.

Session Management
Session management will continue to use a *session-id* within a *cookie*. These fields are described in detail in the RETS 1.7.2 standard in Section 3.7 on page 3-7. A *session-id* will be returned only after a successful Login transaction has occurred.

Minimum Query Requirements
Minimum query requirements are in place for Search transactions against the Property ResourceID only. This means that we require that the Query argument for a Search transaction against Property data must contain **at a minimum** SystemName(s) from one of the sets of SystemNames found below. A request that does not meet this requirement will be declined and a ReplyCode of 20203 will be returned. The SystemName sets are as follows:

- APN and County
- MLNumber
- ListingRid
- Approved and Status
- Area and Status
- Region and Status
- Area, Region and Status
- City and Status
- Longitude, Latitude and Status
- SearchPrice and Status
- StreetName and Status
- StreetNumber and Status
- StreetName, StreetNumber and Status
- SubdivisionNumber and Status
- ZipCode and Status

As long as one of these SystemName sets is included in the Query argument, any other Searchable = TRUE SystemName can also be included in the Query argument.

***IMPORTANT:* There will be implementations when one or more of the sets will not be available on a given RETS server as the available SystemNames in METADATA-TABLE can differ from one MLS to another.**

Search Limits

We will be implementing search limits per query based on the number of fields specified to be returned and the time at which the Search transaction is submitted. The search limits matrix is noted in Table 1 and the time limits will be based on the MLS's local time.

Table 1

Minimum Columns	Maximum Columns	Start Time	End Time	Record Limit
1	4	8:00 AM	6:00 PM	1000000
1	4	6:01 PM	7:59 AM	1000000
5	15	8:00 AM	6:00 PM	2000
5	15	6:01 PM	7:59 AM	2000
16	30	8:00 AM	6:00 PM	1500
16	30	6:01 PM	7:59 AM	2000
31	50	8:00 AM	6:00 PM	500
31	50	6:01 PM	7:59 AM	2000
51	All	8:00 AM	6:00 PM	300
51	All	6:01 PM	7:59 AM	2000

For more information, visit us at **www.rapattoni.com**

Picture Limits

We will be implementing picture limits per query based on the time at which the GetObject transaction is submitted. Limits will be placed on the number of pictures allowed to be passed back based on the criteria of the query string. For GetObject transactions that exceed the specified limit a RETS-STATUS ReplyCode of 20410 will be returned along with the number of pictures that fit within the limit. The picture limits matrix is noted in Table 2 and the time limits will be based on the MLS's local time.

Table 2

Start Time	End Time	Picture Limit
8:00 AM	6:00 PM	300
6:01 PM	7:59 AM	1000