

RETS Schema Workgroup Meeting Minutes

June 19, 20, 2007

Westlake Village, CA

Minutes prepared by:

Gina Accawi,
Paul Stusiak

Location:

Westlake Village Inn,
Westlake Village, CA

Attendees:

Gina Accawi	Falcon Technologies
Eduardo Angeles	MRMLS
Randy Croy	FNRES
Sergio DelRio	T4Bi
Jaison Freed	FBS
Bob Gottesman	Voyager Info
Rick Herrera	Move Inc.
Rob Larson	MRMLS
Matta Lavallee	PMP/Technology
Chris McKeever	NAR
Yan Medvedev	Move Inc.
Shawn Meissner	Move Inc.
Gregg Petch	MRIS
Eric Petersen	Trend MLS
Tony Reyes	Rappattoni Corp.
Brian Ruzycki	FNRES
Peter Spicer	REIL (RE InfoLink)
Paul Stusiak	Falcon Technologies
James Sullivan	MLS/CLAW
Lisa Taylor	MLS/CLAW
Joshua Vosper	Rapattoni Corp.
Michael Wurzer	FBS
Johnathan Yu	MLS/CLAW

Agenda

Day 1 Agenda

- Call meeting to order, 8:30AM PDT
- Initial Comments
- Meeting purpose
 - Quick overview of RETS1 and RETS2 - where to now?
 - Quick overview of RETS2, schemas and schema design principles
 - Standard names, typing and data quality
- Review changes from previous meeting to Agents, Offices schemas
- Complete the review of Offices schema started last meeting
- Review of Listing schema
- Adjourn meeting for the day, 5:30PM PDT

Day 2 Agenda

- Call meeting to order, 8:30AM, PDT
- Continuation of Listing schema review
- Property schema review
- Summary of Session Action Items
- Set Next Meeting
- Additional business.
- Adjourn meeting, 2:00PM PDT

Minutes

The meeting was brought to order at 8:30 AM

Opening Comments

Paul Stusiak

Paul opened by reviewing the last meeting and going over the agenda.

To give new attendees a perspective on the purpose of the meeting, some general comments were made and are reported verbatim.

“We want to standardize the schema to encourage and improve interoperability. In this meeting, we have some schemas proposed already based on work from RETS1 and added elements that people were talking about. We wanted to make sure we are on the right



track and are building something useful for everyone. Part of this is missing in RETS1, where we have some standard names but they are poorly implemented, at least in part because the meanings were never captured and defined. As an example, listingPrice and listPrice are easy to map, but there are many others that are less obvious. When the intent of the field was not clear, the mapping was not clear therefore, very few elements were mapped making the Standard-XML data nearly worthless and incomplete. We would like to ensure that we provide better clarity to the community and can explain why fields are or are not present. We want the community to have input and provide feedback, since they will have real world experience with the information.

Some confusion may have occurred from some comments made at the Austin meeting over RETS1 and RETS2. The confusion may be expressed as what is the direction of RETS? I will state and Mark Lesswing has confirmed we are continuing to work towards completing RETS2. This does not mean that work on RETS1 is completely stopped. While RETS1 is in production now, it does not meet all the needs out there. The participation and support of the transaction community is important, their needs are not met in RETS1. The general RETS community is supportive of web services and schema and is interested in pursuing a path to web services.

Work on RETS1:

At the Austin meeting, a technical review committee was formed to review the RETS 1.7 specification and make recommendations to address anything missing, and to ensure that the specification is solid. This may result in changes to RETS 1.5 to create a RETS 1.5.1 if the committee recommends it and the RETS Workgroup adopts it. This may result in a RETS 1.7.1 to document the changes recommended by the committee if the Workgroup adopts it or it may result in a new RETS 1.8 version if that is what the RETS Workgroup community wants, where we add new features and correct the deficiencies of RETS 1.7. This review is currently underway. A second technical committee was formed to discuss the Update transaction. This may result in some of the RETS2 Update feature having a revision or it may result in a Change Proposal to modify the Update function in RETS 1.7.

Work on RETS2:

The RETS2 Service Document was ratified at the August 2006 RETS meeting by the community. The specification, unlike RETS1, is comprised of smaller specifications. This is different from RETS1 where it was all in a single document. By breaking out the pieces, this allows work to proceed in areas such as security and the schema. This meeting is part of the work in completing the RETS2 Standard. RETS defines both a transport and a way to work with the data. The transport is defined in the Service Document. The data representation is being addressed in these meetings. When the community has completed the work on these schemas, they will be voted on and hopefully adopted as part of the RETS2 specification suite.

You should expect that there will be more meetings to review the schema before bringing to a vote. We will probably do the voting by schema rather than trying to vote on the entire schema set. Part of the reasoning for doing the vote by schema rather than the

entire set is that we want to have the adopted schema frozen and posted so that people can begin implementation using the payloads.

There were three data formats in RETS1: compact, compact-decoded and standard-xml. One of the faults in RETS1 is that there is no way to represent region or MLS specific information in a standard way. With XML schema, we can define the structure of the content, the type of the content, and provides more details than the old DTD. Tools are now focused on XML schema rather than DTD, making schema the better choice for capturing what we need moving forward. We have built in extensibility to the RETS2 schemas that were missing in RETS1.

In RETS2, the payloads are many xml documents, as well as delimited and delimited-encoded. Delimited is synonymous with compact-decoded and delimited-encoded is synonymous with compact. In RETS2, there may be different payloads for the same resource: MISMO, IDX, listing, custom, or standard for example. In order to accommodate customization we allow extension of the schema with fields that may be regional. The goal is to provide standards that are rich, useful, and as complete as possible.”

Paul then gave a quick overview of the changes since last meeting:

- Add website URI to agent schema.
- Make designation repeatable since there may be multiples.
- Indicate NRDS commons elements by prefixing the element name with NRDS
- Completed regularization of the Date elements
- Elimination of many additional complexTypes that were not needed.

Paul showed some examples of the new element names.

One of the questions that occurred while performing this is how can we handle agents who are not members? This is for discussion later today.

Paul concluded by describing the remaining changes:

- Communication sequence
- Further clean up of commons

He also mentioned that the changes were entered in a change system and that reports can and will be generated from the system and posted.

Agent and Office Payloads Detailed Review

Paul Stusiak

The floor was opened to discussion.



The first point that was raised was regarding adding a password element to the Agent resource. Certain current implementations send agent passwords. Should we add this? From a security standpoint, several in the room did not think it should be included, citing industry recommended practices that state that password transmission is not a recommended practice. Gregg Petch suggested that existing RETS 1.x servers would continue to use current methods, but for RETS2, we should be phasing these sort of things out.

Matt L. suggested that offline applications may need a cached way to authenticate. Paul suggested that perhaps there was a security information payload that includes password implemented where it is a business rule rather than as part of the standard. The counter argument was made that it would be better to define this within a standard than to allow each location to implement a different solution.

Tabled – further discussion of a security information schema.

Lisa asked if the Agent Photo should be included in the Agent resource. The group agreed, and then discussed the need for office logos and other media items.

Action – Add MediaItems container element to Agents and Offices.

Tabled – The question “do we need to have media content for the binary and for the URI as alternate means to get the resources?” was tabled.

Action – Review binary/uri resource descriptor for next meeting. At that meeting, we should provide a solution to get media by either method.

The meeting was recessed for the morning break.

When the meeting was resumed, Paul brought up the concept of team. This was brought up at the last meeting, and we currently do not support this in any way. We would like to have some input as to what that should be, whether it appears at the agent, office or some other level. One point that was made is that a Team exists for longer than the lifetime of a listing.

Mike Wurzer says they call them member, and it references multiple members. A team can have one to x members. We still need listing agent, co-listing and broker. A co-list or list may be an individual or may be a team. They could also be businesses or individuals. We may need a type definition for this. The hierarchy that they use is Region, MLS, Company, Office, Team and Member.

Perhaps agent is a misnomer, maybe we are talking about members or brokers. A member may be a collection, which is a team.

Team is a container of agent/members. It is a member itself, with a type of team. MLS, Company, Office, Broker, Team, Member. We need to cover the situation where a team

cuts across different offices. In some cases, it may cut across different companies too. A member may be a member of multiple teams.

Matt L. disagreed with the practice of putting short version of information in the referenced schema, such as agent referencing a short office. He expressed that there should be a second query to get the full item. There could be different information that is required by different parties. This argument is the flattened view vs. multiple queries. Paul pointed out that there is a legitimate use case for including the information. The IDX format should be used to cover this use case.

Action – Remove wherever possible excessive flattening or containerization.

Mike Wurzer: Need a way to represent the MLS, Association, and Regional = Collection of MLSs. May be called an Exchange.

Sergio: We need to categorize the address, similar to phone. So, we may have mailing, billing, shipping, physical, legal, other as the enumeration values of the category.

A short discussion occurred about the naming of the schema. The group agreed that the schema name of ContactMethod better represents the meaning of the schema.

Action - Rename ContactInformation to ContactMethods.

A short discussion occurred about the need for different types of privacy information not covered by the ISG – specifically, where there is information that is private to the MLS, to the Agent level and information that is public. This is outside of the levels described in the ISG.

Action - Add attribute to contact for privacy: Public, Agent, MLS. This would be for phone and email.

Action - For the preference, need to have phonePreference, emailPreference, otherPreference and top level contactPreference.

Action - Add a Team.xsd. Team needs attributes for standard modification timestamp. Needs elements: ContactMethod, Id, name, website, and collection of members. Document that the primary team member implied by listAgent/listMember.

For the Listing member/agent types: Listing, Co-List, Team.

A discussion around the word Agent determined that there were certain locations that did not permit the use of Agent. While this is an internal RETS representation that we are working on, it was decided that it would be better to change agent to member.

Action - Rename agent to member.

The group discussed OfficeFormalName and could not think of the reason for having this element. The group confirmed the desire to remove OfficeFormalName from ShortOffice.

Action - Remove OfficeFormalName from ShortOffice.

A lengthy discussion of geographic information in RETS occurred. From the discussion, the group agreed that the following structure is sufficient.

```
<GeographicData>
  <MapBook/>
  <Latitude/>
  <Longitude/>
  <Elevation/>
  <CoordinateSystem repeatable>
    <easting>
    <northing>
    <height>
  </CoordinateSystem>
</GeographicData>
```

As well, accuracy should be treated similarly to that of the existing accuracy pattern that length and area use now.

Action - Add source (string), accuracy (string) to geographic data. Move directions into GeographicData.

Action - Make geographicData extend BaseGeographic data rather than container.

Recess for lunch

Office Payload Detailed Review

Paul Stusiak

An attendee requested discussing Media.xsd. Paul, as chair suggested that we defer this discussion to a later meeting in Late July where we can cover Media and review the changes discussed today and tomorrow. The location is to be determined, but the desire is to have it near the middle of the country with possible venues of Minneapolis, Chicago or other.

An attendee pointed out that FranchiseId should say NRDS. The discussion concluded with the action item that the fields need to be reviewed to ensure that everywhere the change has been made to add NRDS to each field that has a NRDS derivation.

Action - Check office for NRDS specific fields without the NRDS naming convention.

Joshua: should the NRDS items be contained within an element container.

Sergio: it would be cleaner.

James Sullivan: How about a map indicating NRDS elements?

General consensus was perhaps not necessary.

Paul: Does the CorporateLicense need a date?

Tabled – CorporateLicense date

Action - OfficeContactManager data type should be the MemberId rather than SecureString.

Action - Rename elements that are Ids to be OfficeContactManagerId. Check for other elements that are Id.

Paul: Do we need to have the ability to indicate key fields or do we make it that Ids are keys? Do we need Id and key? Key is required as well, minOccurs="1". The group agreed that this is a desirable change.

Action - Change the documentation for the Id to no longer indicate uniqueness.

Action - Add key to each of the resources.

Action - Add a resourceKey common type. Make the key elements have the type resourceKey. This should have a base type of string, since keys could represent a database key, a uri or any other implementation defined unique naming method.

Listings Payload Detailed Review

Paul Stusiak

Matt L. brought up ListPriceLow and High. What are they? The group provided a definition.

Action - Add documentation explaining what it is.

Action - Consolidate the list price types to the type Price.

Action - Check for other price definitions that should be collapsed to the type Price.

Action - Made ListPrice mandatory.

A short discussion occurred around the question of do we need a LastListPrice? The general consensus is that a LastListPrice is not needed.

Action - Add documentation to indicate that the status enumeration Closed is the same as Sold.

Action - Add similar documentation to the ClosePrice definition.

Subdivision was discussed. What about Community? What is going on with Listing community and Property community. In properties, it is a complexType with Subdivision and SchoolData. Community is also defined in multiple places – HOA, Neighborhood and Community.

Can this be represented as only two fields, HOA and Area? The group agreed that Area is a poor choice of name since it is already used to represent the geometric idea of area. The group had a discussion that had Neighborhood is synonymous with ListingArea is synonymous with Community while Subdivision is a formal description.

Mike Wurzer: This is a neighborhood concept, but current MLS captures this as Area catchall type of situation.

The group agreed that ListingArea has the correct description.

Action - Move the Community element from Listings.xsd to Properties.xsd.

Action - Move ListingArea element from Listings.xsd to Properties.xsd.

Action - Rename the element ListingArea to MLSArea.

The Listing would be where items may change. The Property is more static. Chris McKeever brought a discussion regarding whether a field of that type should be in the Listing, since it may be a marketing tool.

Action – Rename Community element to MarketingName

Joshua will send the list of area types.

Action – Remove the Community complexType from Properties.

Action – Move the Subdivision and SchoolData up a level from the Community complexType.

Action – Handle SeniorCommunity, ExistingStructures, CommunityName with property down the line.

Action – Handle things with amenities.

Action – Owner and Occupant should be defined in Property.

Tabled - Add owner in listing or property. This was not clear from the group.

Action – Fix the Subdivision documentation, it is not correct. The information may come from the tax record. The information may have a legal standing.

Sergio: Listing should have InterestedParties, with Members, Owner, Occupant, Team, Office. The name could be ListingParticipants. Agent and Office should be linked together. In any case, it must be possible to form a query with the element as well.

A question arose, could the interestedParties concept and the Team concept overlap in some way?

Action – Build a schema implementing suggestion from Sergio for InterestedParties.

A discussion of display or visibility controls started. Some possible cases for visibility controls or rules are IDX, VOW, Display on Internet, Address on Internet.

Sergio suggested the concept of subscription per site, for each subscription there are fields that cannot be seen.

Paul suggested the visibility should go on all the top level complex types deserving of schemas.

Matt L. suggested that the container level has an attribute that is a comma separated list of strings indicating the visibility rules. The actual rules may be described in a separate document.

DisplayRules, DistributionRules is the name of the attribute. This will not cover the case of IDX. This placeholder is just an indicator that will be described in further detail later.

Action – Add an attribute displayRules to top-level types with schema defined for them. The type is a string.

Action – Check for enumerations requiring the attribute for specifying values.

There was discussion of PropertyType and PropertySubType.

Tabled – additional discussion of PropertyType and PropertySubType until tomorrow.

Peter Spicer would like to have entity relationship diagram to help with sharing the data with the customers who do not know about XML or Schema. This would be in addition to the simple class diagram.

Action – Put some logical ordering to the elements in the schemas. The logical ordering should be grouping by like then alphabetic. The work should start with Listings, Properties then go on to other schema.

The meeting was adjourned for the day.

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Listings Payload Detailed Review Continued

Paul Stusiak, Falcon Technologies

Paul presented a trial grouping of some of the elements of the Listings.xsd.

Joshua talked about mentioned putting more containers around things like Date and Price. Alphabetical order and logical grouping discussion began. A discussion of changing the naming pattern from ListPrice, SoldPrice to PriceList, PriceSold for alphabetic grouping determined that it was better to leave the naming pattern as it is now – ListPrice. The group liked Joshua's idea of grouping containers.

Action – Add grouping containers for review.

The group talked about remarks. A common remarks type was the preferred solution.

Action – Remove all the derived remarks types. Replace with a common remarks type.

Action – Grouping of the like elements should occur for Listing and Property by next week for publication to the website.

Discussion of schematron and business rules expression language ensued. The group decided that for the time being, visibility rules and the isgSecurityClass will stay as they are.

There was a question raised about applying security to the FireplaceDetails element. The group decided that it was not appropriate.

Action – Change FireplaceDetails from a secureString to a string.

The discussion of PropertyType and PropertySubType resumed. Mike W. mentioned that the property types realtor.com uses might be the place to start for property types. Rick Herrera told the group that they use seven property types. Those property types are: SingleFamily, CondoTownhouse, MobileManufactured, Farm, LotLand, Rentals, Commercial. It was suggested that the following types be added to this list: Multifamily, Agricultural.

Action – Combine the nine types with the existing enumeration for PropertyType.

We discussed CommonInterest vs. Condo/Townhouse as Property types.

Tabled – Should the usage be CommonInterest versus CondoTownhouse?

The next topic of discussion was manufactured homes. This was how to cover it as a top level type, or as an attribute on the property itself. Ultimately, we landed on Mobile/Manufactured as a PropertyType type.

Action – Add elements for 443 type (on a foundation without an axle) of property for manufactured home. At a minimum, this requires a legal notice.

Action – Add Farm and Agricultural to the PropertyType enumeration.

Action – Add DeededParking to the PropertySubType enumeration.

Action – Add MarketingArea to Listing. Does this conflict with the previous community moves?

Action – Add a flag to indicate which of the members the primary member is for both listing and selling. This could be within the team and within members. Make this entry top level, and allow only member.

Action – Make category at team level as well as inside the team on the member level.

Matt L. Made a suggestion to reverse the category to a top-level container holding the participants.

Recess the meeting for a morning break.

Properties Payload Detailed Review

Paul Stusiak, Falcon Technologies

Paul asked if we needed any of the less commonly used items in Properties: Sidewalk, StreetLighting, Driveway, PatioType. Some in the group indicated they had them as features of the property. Perhaps they should be under ExteriorFeature.

Action – Add a Lot container to hold the outside features.

Action – Add LotDescription.

Action – Move the element Laundry into amenities.

There needs to be a container to handle items that are relevant for communities or multi-family. Examples include AnimalPolicy and Laundry.

Action – Add some elements to Financial.xsd: Additional fee, Recurring Fee to cover: Pets: Pet deposit, additional pet rent, Deposit required.

Action – Document the Permitted types to indicate that it includes: breeds, types, neutered, declawed, etc.

Shawn brought up the point of the presence or an attribute to indicate the existence for waterfront or pool for example. Many systems do not track the specific type, only that there is one. This led the group to conclude that we need at least an existence attribute for View, Pool, Fireplace, Garage and Waterfront.

Action – Review Commons, Properties and Listings to make sure that all the enumerations that have an element “Other” also have the otherDescription attribute.

A lively discussion ensued regarding Boolean and multi-state values around unknown, no, none, yes empty/null, missing element. The general consensus was to have a value to indicate presence.

Action – Ensure all enumerations have None as a possible value.

Action – Review the enumerations to verify that there are no nullable enumerations. For container amenities, add a boolean yes/no attribute. If the amenity presence is unknown/not filled out DO NOT SEND THE ELEMENT. We won't allow nulls in order to keep this clear.

Action – Add SpecificDate, AfterHarvest AfterSeason to PossessionTypeEnum. Also add ClosePlus and put more information in the description attribute. Joshua will send his company's list of enumerations for this to Gina and Paul.

Action – Move Age (string) and YearBuilt (integer) to Properties/Building as a child element of Building. Neither element is nullable. Review this implication and report back to the group at the next meeting.

Action – Check for SecureMeasurement to make certain it is defined in Primitives.xsd. It appears to be missing.

The baths and rooms concepts were discussed after lunch and occupied most of the remaining time. From this discussion the group agreed on many changes to the structures to resolve these changes.

Action – Add bath and types full, half, quarter, threequarter to roomTypeEnum. Remove BathWainscotMaterials. Remove the BathsTotal, BathsFull, BathsHalf, BathsThreeQuarter types. Make the types all integers. BathroomCount is the number of rooms that are bathrooms, also an integer. BathsTotalLegacy is a string.

Action – Add an isMaster flag for the room. Documentation: There is a door or entranceway between the master bedroom and this bathroom. Indicates the principle one of a given type of room.

Action – Put BathsTotal at the same level as TotalRooms. Change the name to TotalBaths. Remove Baths as a separate type from RETSCommons namespace.

Action – Add WindowTreatment under Windows with a type of string.

Action – Add hasWindowTreatment and WindowType at the Property level. Many cases were described where the windows were only known at the property level and not at the room level.

HasWindowTreatment compared to the hasAmenities. We have discussed putting them at the top-level for WindowTreatment. For amenities, we determined

Action – Remove the many definitions for Schools. We do not need all the various school types. To be consistent, change the name to Schools from SchoolData. Add an element to School of District. Make the elements repeatable and optional. Make a SchoolTypeEnum type enumeration. Ensure that there is a School name element. Add Secondary as a school type. Review at next meeting to determine if there are other types needed. Add an Other enumeration and the attribute OtherDescription.

Action – Remove the Garage, Carport and any other specific type definitions for Parking. Create a type enumeration to include oversized, commercial. Matt will send the possible types with definitions. Joshua will also send his. The attribute HasParking goes with the isPresent discussion that we had earlier. There will be a total element. Add description at the parking level. Add parking Financials like leased, owns, rents, deeded, fees, conveys. Change area to use the area type. Add dimensions.

Action – Move landscape, topography, land use to the lot information.

Action – Add Ceiling insulation. This is a required field at some MLS locations now.

Next Meeting

The group discussed having one more meeting before the August RETS Workgroup meeting in Chicago. There were several places suggested with comments. Fargo, ND was possible with Mike Wurzer of FBS hosting. Mike pointed out that while a very nice place, Fargo is difficult to fly into. Minneapolis/St. Paul, Minnesota was suggested if a location can be found. Paul said that he would discuss this with Ed Newman of NorthStarMLS. A final suggestion was either of the Chicago or DC NAR offices. If a venue can be found, the suggested dates are July 17 and 18, 2007.

The meeting was adjourned at 2:10 PM.

Appendix: PowerPoint Presentation slides

Slide 1



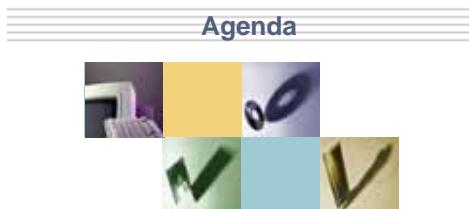
RETS Workgroup Meeting

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June 19-20, 2007

Westlake Village, CA

Slide 2



Slide 3

A slide titled "Agenda" with a decorative header of horizontal lines. Below the title is a list of items under the heading "Day 1 Agenda". The list includes: "Call meeting to order, 8:30AM PDT", "Initial Comments" (with sub-points: "Meeting purpose", "Quick overview of RETS1 and RETS2 - where to now?", "Quick overview of RETS2, schemas and schema design principles", "Standard names, typing and data quality"), "Review changes from previous meeting to Agents, Offices schemas", "Complete review of Offices schema", "Review of Listing schema", and "Adjourn meeting for the day, 5:30PM PDT". At the bottom right of the slide is a small graphic of three icons (a green square, a blue circle, and a yellow square) and a footer line with the text "June 19-20, 2007 Meeting ©2007 National Association of Realtors" and a page number "3".




Slide 4

Agenda

Day 2 Agenda

- Call meeting to order, 8:30AM, PDT
- Continuation of Listing schema review
- Property schema Review
- Summary of Session Action Items
- Set Next Meeting
- Adjourn meeting, 2:00PM PDT




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Meeting Purpose

Meeting Purpose:

- Get consensus on names for Agents, Offices, Listings and Properties schemas
 - Validate the existing elements
 - Review elements for need
 - Remove unnecessary elements
 - Capture the meaning of names.
 - Add missing elements
- Work with the attendees to make sure that we get better examples into the schema
- Move elements and types to a more natural schema location




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Slide 6

RETS 1 and RETS 2

- Possible confusion over message from Austin Meeting
 - RETS 2 is continuing development
 - RETS 1 is under review
- General positive support from majority of community
- Some concern from portions of the community




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RETS 1 and RETS 2 – cont.

- RETS 1 – technical review
 - Group will recommend possible fixes to 1.x to remove errors and ambiguities
 - Additional change proposals may be brought to the community
- RETS 2 – continuing development
 - RETS2 Service document has been ratified by the community as of August 2006.
 - Additional documents will be brought to the community
 - Security
 - Schema
 - Vocabulary



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RETS2 and Schemas

Schema = result set

RETS 1 – compact, compact-decoded, standard xml.

RETS 1 – no way to represent all the data as xml from within the standard.

RETS 1 – uses DTD



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RETS2 and Schemas – cont.

RETS 2 has payloads (schema xml instance document) and delimited, delimited-encoded.

May have different payloads for the same resource – example Residential may have a listing, idx, mismo, other payloads.

Rich ‘standard’ payloads, but well defined method to extend the xml instance document.



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MLS Payloads Changes



Slide 11

Changes

- Add website URI to agent schema.
- Make Designation repeatable, since there may be multiples.
- Indicate NRDS commons elements by prefixing the element name with NRDS




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Changes - 2

- Agents.xsd
 - NRDSMemberType
 - NRDSStatusCode
 - NRDSStatusDate
 - NRDSRealEstateLicense
 - NRDSMLSId
 - NRDSPrimaryAssociationId
 - NRDSPrimaryStateAssociationId
 - NRDSMemberId




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Changes - 3

- Offices.xsd
 - NRDSOfficeType
 - NRDSBranchId
 - NRDSBranchType
 - NRDSAssociationId
 - NRDSMLSId
 - NRDSJoinedDate
 - NRDSStatusDate
 - NRDSStatusCode
 - NRDSalesPersonCount
 - NRDSPointOfEntry




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Pending Changes

List of pending changes include:


- Communication sequence
- Clean-up of Commons namespace caused by changes in Agent, Office
- Additional changes generated from previous meeting



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MLS Payloads Detailed Review




Slide 16

Detailed Reviews – Types

```

<xs:complexType name="AgentType">
  <xs:sequence>
    <xs:element name="Person"
      type="commons:Person"
      minOccurs="0">
    </xs:element>
    <xs:element name="Designation"
      type="commons:Designation"
      minOccurs="0">
    <xs:annotation>
      <xs:documentation>

```



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Detailed Reviews – Types

```

<ns:Agents versionTimestamp="2007-05-01T22:23:00Z" xml:lang="">
  <ns:Agent id="1234589012345890" role="Buyer's AgentBuyer's Agent">
    <ns:Person isqSecurityClass="Confidential">
      <ns1:PersonalTitle>Dr</ns1:PersonalTitle>
      <ns1:FirstName>Edwin</ns1:FirstName>
      <ns1:MiddleName>E</ns1:MiddleName>
      <ns1:NickName>Buzz</ns1:NickName>
      <ns1:LastName>Aldrin</ns1:LastName>
      <ns1:Suffix>Jr</ns1:Suffix>
    </ns:Person>
    <ns:Designation isqSecurityClass="Public">ABR</ns:Designation>
    <ns:Address>

```



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