

Transport Workgroup Meeting Scott Petronis, Chair



SPEAKER



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Check out our conference app for more information about this speaker and to view the handouts!



Agenda

- Update Goals
- Use Cases
- OData Support
- Discussion
- Next Steps, Volunteers
- Other Open Items
 If time permits



Goals

- Enable developers to create new applications or augment existing applications to keep MLS data records up-to-date based on information changes.
- Leverage existing standards and technologies as much as possible.
- Deliver a draft specification by Q1 2017.

- Questions that must be answered
 - What type of record / resource?
 - Does this user have the rights?
 - Does a record already exist?
 - What minimum fields are required?
 - What values are expected?
 - Complete record or only specific fields required?

- Create a new listing
- Modify property attributes
 e.g. sq ft, rooms, etc.
- Modify listing attributes
 E.g. price, description, etc.
- Add, change or delete media
- Add, change or delete documents



- Add, change or delete an open house
- Update listing status
- Update member info
- Update office info
- Update contact info
- Update saved search

- What's missing?
- Priority?
- Challenges?

OData Support

- 11.4 Data Modification Create, Update, and Delete
 - -Supports Actions (Input Actions)
- -Determine conflicts with ETAGS
- -Preferred method of update is PATCH because clients should handle the case of properties not present in metadata document.
- -Handling of Consistency Constraints Referential integrity
 - -Update individual properties
- Ex. <u>http://host/service/Property(ID123456)/StandardName</u> body{A ctive}
 - -Support for Change sets 11.7.3 (Transactions)
- -Upserts client sends an update, but the entity does not exist then process as insert

OData Requirements

- 13.1.1 OData Minimal Conformance Level:
- In addition, to be considered an Updatable OData Service, the service:
 - 14. MUST include edit links (explicitly or implicitly) for all updatable or deletable resources according to [OData-Atom] and [OData-JSON]
 - 15. MUST support POST of new entities to insertable entity sets (section 11.4.1.5 and 11.4.2.1)
 - 16. MUST support POST of new related entities to updatable navigation properties (section 11.4.6.1)
 - 17. MUST support POST to \$ref to add an existing entity to an updatable related collection (section 11.4.6.1)
 - 18. MUST support PUT to \$ref to set an existing single updatable related entity (section 11.4.6.3)
 - 19. MUST support PATCH to all edit URLs for updatable resources (section 11.4.3)
 - 20. MUST support DELETE to all edit URLs for deletable resources (section 11.4.5)
 - 21. MUST support DELETE to \$ref to remove an entity from an updatable navigation property (section 11.4.6.2)

OData Requirements

- 22. MUST support if-match header in update/delete of any resources returned with an ETag (section 11.4.1.1)
- 23. MUST return a Location header with the edit URL or read URL of a created resource (section 11.4.1.5)
- 24. MUST include the OData-EntityId header in response to any POST/PATCH that returns 204 No Content (Section 8.3.3)
- 25. MUST support Upserts (section 11.4.4)
- 26. SHOULD support PUT and PATCH to an individual primitive (section 11.4.9.1) or complex (section 11.4.9.3) property (respectively)
- 27. SHOULD support DELETE to set an individual property to null (section 11.4.9.2)
- 28. SHOULD support deep inserts (section 11.4.2.2)

OData Support

- What's missing?
- Priority?
- Challenges?

Turning this into a RESO Standard

- Must have use cases
 - Create? Update? Delete?
 - Specific resources and entities
- Matched to OData standard
 - Actions, PATCH, Change Sets, Upserts
 - Handling constraints, conflicts, integrity
- Recommended approach
 - Write / present to workgroup to move forward

Now for the fun part...

- Participation
 - Small team of 5-6
 - Debate, create outline, initial draft
 - Present to rest of workgroup
 - Receive timely feedback
 - Refine and finalize draft for vote