Transport Workgroup

Scott Petronis
Matt McGuire
Agenda

• Objective
• Why?
• What?
• Process
• Status
• Details
• Next Steps / Timeline
• Q & A
Objective

• Determine recommended approach for a RESTful way to deliver real estate data
• Enable direct interaction with data from web, mobile, social applications
• Keep things lightweight
• Don’t re-invent the wheel
What is the Cloud?
How do we do this?
Application Server
RESO Standards Platform

Internet Standards

RESO Standards Platform

Dictionary
Transport

MLS Server
RESO Standards Platform?
RESO Standards Platform

Transport

Dictionary

Security

Existing Open Internet Standards
Process

- Research
- Review options
- Debate alternatives
- Recommend a path
- Document
- RESO review / comment
- Ratify
- Move forward
Status

• Collected ~ 60 use cases

• Compared to OData

• Established path with OData v3

• Draft documentation
Details

• Scope – Search focus (HTTP GET)
  – Explicitly in scope in initial release:
    • Metadata Representation
    • Read Access / Standard Search
    • (Limited) Geospatial Search
    • Hypermedia Representation
  – Explicitly out of scope in this initial release will be:
    • Create, Update, Delete functionality
    • A Data Replication Framework
    • Updating Binary Media Resources
    • Saved Searches and Resources
Details

• Resources (payloads)
  – A resource is a specific end point
  – Specific resources defined by Data Dictionary
  – Initial focus is:
    • Listings
    • Members
    • Offices
    • Media
  – Others can be added
Details

• Specific Query Strings
  • $select – selects desired resource elements to be returned - MUST support
  • $filter – filters returned items according to filter criteria - MUST support
  • $top – designates the maximum number of matching items returned - MUST support
  • $skip – designates the number of matching items to omit before returning any items - MAY support
  • $orderby – designates the field used to order items returned - MAY support
Details

• Operators
  – Extensive support
    • Logical – and, or, not,…
    • Equality – eq, lt, gt, ge,…
    • String – substring, startswith, endswith, …
    • Enumeration – any, all
Details

• Geospatial Functions
  – Follows OGC specifications (simple feature)
  – Support key primitive data types
    • Points, Polygons, Multipolygons
  – Support core functions
    • geo.Distance
      – e.g. listings nearby a specific point
    • geo.Intersects
      – e.g. listings within a custom polygon
Next Steps / Timeline

• Finalize documentation
  – End of month
• Documentation out for review
  – November
• Revisions
  – December
• Ratify
  – End of year?
• Prototype
  – Q1
Q & A

Thank you!
Application Server

Application Server