



# RESO

Real Estate Standards Organization

## RESO R&D Workgroup Paul

**Desormeaux** RESO R&D Workgroup Chairman

Ottawa Real Estate Board

EquiNet Inc.

# R&D Workgroup - What We Do

- **Filter Ideas ( Members , BOD ) > Workgroups**
- **RESO Workgroup Community**  
Collaboration System = **Hosted Confluence**
- [reso-research-development@googlegroups.com](mailto:reso-research-development@googlegroups.com)



# R&D Participation

- **Member Input is Critical & Appreciated**
- **Thank you !**



Ira Luntz	Mark Hall	Yvonne McCarty
James Martin	Matt Cohen	Richard Torp
Josh Schwingler	Mark Lesswing	Rick Herrera
Joshua Vosper	Matthew McGuire	Rob Larson
Paul Desormeaux	Ed Newman	Robert Gottesman
Marc G. Smith	Olga Ermolin	Ross Lindell
Marcy Foster	Paul Hethmon	Stuart Schuessler
Paul Stusiak	Joshua Vosper	

# RESO Workgroup Community

- Collaboration System = **Hosted Confluence**
- Reviewed **22** products using focused team of **3**
- A few tempting fun/easy/slick products (i.e. social media)

<a href="#">Basecamp</a>	<a href="#">Binfire</a>	<a href="#">Clinked</a>	<a href="#">Confluence</a>	<a href="#">Cynapse</a>
<a href="#">SharePoint</a>	<a href="#">CubeTree</a>	<a href="#">Evernote</a>	<a href="#">glasscubes</a>	<a href="#">Google Sites</a>
<a href="#">Group Camp Project</a>	<a href="#">Huddle</a>	<a href="#">Onstage</a>	<a href="#">Podio</a>	<a href="#">Teambox</a>
<a href="#">teamwork</a>	<a href="#">Trello</a>	<a href="#">wiggio</a>	<a href="#">wridea</a>	<a href="#">Yammer</a>
<a href="#">Zoho</a>	<a href="#">Bitrix24</a>			

# Collab System Eval Criteria (1)

Document Management	Site Publishing and Customization	Project Management	Collaboration Tools
Shared Folders	Group Site Workspaces	<b>Tasks, Due Dates, Priority, LOE, Status</b>	Wikis
<b>Document Collaboration &amp; File Sharing</b>	Personal Workspaces	Reports/Views on Project Statuses	Shared Calendars + Scheduling
File Sharing	Template Library	Gantt Charts	<b>Discussion Forums + Quick Vote</b>
Document/File Comments	Dashboard	To-Do lists	Polls and Questions
<b>Versioning</b>		Workflows/Advanced Project Management	Shared Address Books
<b>Notifications</b>		Online Forms	Blogs
Batch Uploads			RSS Feeds
<b>Full Text Search</b>			Auto Periodic Activity Recap / RSS Feed
Export & Backup systems			Custom Lists
			Group Announcements

# Collab System Eval Criteria (2)

Security	Device Accessibility	Support
Secure Authorization for different categories of Public and Members	<b>All popular browsers</b>	Access to Basic Solutions Engineer
<b>Assign Individual and Group Privileges</b>	iOS	Standard Web Training Package
Well thought out security schemes	Android	Support Services through Online, E-mail and Phone Access
Easy to apply security rights	Mobile Screen	Targeted Admin Implementation Guides and End User Materials
User Management for Adding, Blocking, Provisioning and Removing Users	Offline Access	Guaranteed 4 Hour Response Times for Support Requests
Strong Authentication for Secure Browser Access	Platform agnostic	Low learning curve / Easy to maintain
Single Sign-on to Log Into Multiple Systems from One Entry Point		3rd Party App Integration / Extensibility

# R&D Business Case Master List

- **Standardized (Listing Source) Organization Names**
- **Property Unique Identifier (PUI)**
- **Data Replication**
- Business Rules Payload
- Events Catalog



# Standard Organization ID (Listing Source)

- **Why?**

- Duplicates in Listing Stats
- Unique listing queries (Interop API), **etc.**



- **Maintain:**

- Unique organization ID ( global international syntax )
- Full organization name
- Short name / Acronym ? (duplicates allowed)

- **Issues:**

- Who updates ?
- Persistence of entries / Date Stamp ?
- Update Process & Frequency
- Delivery Mechanism (Doc , WS, DD Enum , etc.)



# Property Unique Identifier (PUI)

- **Why?**

- Duplicates in Listing Stats
- Unique listing queries (Interop API), etc.



- **Formula:**

- **Country Code + State/Province + County + Parcel # / P.I.N.**

- **Fallback Formula?:**

- **Country Code + State/Province + County + City/Town + Address**
- **Longitude + Latitude + Altitude**

- **Issues:**

- Global / International
- Delivery Mechanism (Doc , WS, DD Enum , etc.)
- OSCRE
- Office of the Deputy Under Secretary of Defence (I&E)

# Data Replication



- **Why?**

- **Current Focus of RESO Standards**

- **Light-weight efficient JIT fetching of data (mobile)**
    - **Discourage the building & keeping up-to-date full copies listings DBs (security)**

- **However: Still strong need (Business Cases) for Replication**

- **Issues:**

- **Data Level vs Transport Level**

- **With the right data model / structures, replication can be straight-forward, robust, powerful**
    - **New OData V4 includes change sets - may be looked at later...**

- **Not always done right at the Data Level: Timestamps (local time)**

- **Answer:**

- **Rob Larson ( Data Dictionary Chairman )**

- **Best Practice White Paper:**

- **How to do Data Replication : Queuing Scheme**

Looking Ahead ...

# Business Rules Payload



- Better expose usually hidden business rules
- *"Why did I not get all the records back?"*
- *Tricky to do with current RETS Validation BNF*



## Events Catalog

- Standard for tracking listing activity (transfers, viewings, etc.) related to multiple parties (Broker Firms, Members, Public, Hosting Websites, etc.) as listings get shuffled between (Servers, PCs, Tablets, Smartphone, etc.)
- Think: Big Data - Cell Tracking

# RESO Forum ( Public , Tech , Open )

- Currently not maintained & out of date ([reso.org](http://reso.org))

- **Need:**

- Single simple thread dialogue
- Q&A
- FAQ
- Summarize description and references to full set of RESO Published Standards & Specification, Best Practices, etc.
- Designed, Setup & Moderated





- **Great Opportunity**
- **There is still room**
- LPD@[EquinetConsulting.com](mailto:LPD@EquinetConsulting.com)

# Questions?

