From to Meandered to Standard – Adventures in Gradual RETS Adoption



Cherre provides investors, insurers, brokers and other large enterprises with a platform to collect, resolve, and augment real estate data from thousands of public, private, and internal sources. By providing a "single source of truth," Cherre empowers clients to evaluate opportunities and trends faster and more accurately, while saving them millions of dollars in manual data collection and analytics costs.



Cherre

Democratizing Real Estate Data







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Personal:

- Grew up in Israel
- **IDF** Captain

Work:

- Co-Founder of Cherre

Education:

Born in Providence RI

 Co-Head of Private Equity at Oppenheimer & Co. Sold GreenCrest Capital (pre-IPO trading platform) Principal at Knight Capital Group (Private Equity)

• MBA from Wharton (Joseph Wharton Scholar) B.A., LL.B., LL.M. from IDC Herzliya (summa cum laude)





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- What our world should look like 1.
- 2. What our world actually looks like
- 3. What we can do to make our world look like it should







The dream...







It just works!



Кеу	Value
StreetNumber	220
StreetName	Riverside
StreetSuffix	Blvd.
UnitNumber	22F
BedroomsTotal	1
BathroomsFull	1





Кеу	Value	
StreetNumber	220	
StreetName	Riverside	
StreetSuffix	Blvd.	
UnitNumber	22F	
BedroomsTotal	1	
BathroomsFull	1	





It just works!









Кеу	Value
StreetNumber	9
StreetName	Park
StreetSuffix	Ave
UnitNumber	
BedroomsTotal	4
BathroomsFull	1





Кеу	Value	Value	
StreetNumber	220	9	
StreetName	Riverside	Park	
StreetSuffix	Blvd.	Ave	
UnitNumber	22F		
BedroomsTotal	1	4	
BathroomsFull	1	1	





It just works!









Кеу	Value
StreetNumber	9
StreetName	Park
StreetSuffix	Ave
UnitNumber	
BedroomsTotal	4
BathroomsFull	1



Кеу	Value
StreetNumber	619
StreetName	Beresford
StreetSuffix	Ave
UnitNumber	
BedroomsTotal	3
BathroomsFull	5





Кеу	Value	Value	Value
StreetNumber	220	9	619
StreetName	Riverside	Park	Beresford
StreetSuffix	Blvd.	Ave	Ave
UnitNumber	22F		
BedroomsTotal	1	4	3
BathroomsFull	1	1	5





The nightmare...







Yay, I have a client!





Кеу	Value
Building	220 Riverside Blvd.
Unit	22F
Bedrooms	1
Bathrooms	1









Yay, I have another client!



Кеу	Value
Building	220 Riverside Blvd.
Unit	22F
Bedrooms	1
Bathrooms	1

Douglas Ellimean REAL ESTATE



Кеу	Value
Street_Number	9
Street_Name	Park
Street_Suffix	Ave
Unit_Number	NULL
Beds	4
Baths	1









A little work, but I got this



Кеу	Value
Building	220 Riverside Blvd.
Unit	22F
Bedrooms	1
Bathrooms	1

	Value	
	220	
Rive	erside	
	Blvd.	

Douglas Elliment REAL ESTATE



Кеу	Value
Street_Number	9
Street_Name	Park
Street_Suffix	Ave
Unit_Number	NULL
Beds	4
Baths	1

Value	
9	

e Value Y	lue 1	
		Кеу
		Street_Number
		Street_Name
Value	lue Value	Street_Suffix
Ave	4 1	Unit_Number
		Beds
		Baths







Oh, I have another client



Кеу	Value
Building	220 Riverside Blvd.
Unit	22F
Bedrooms	1
Bathrooms	1

	Value	
	220	
	Riverside	
ſ	Blvd.	

Douglas Elliman REAL ESTATE









Кеу	Value
UNIT_NUMBER	619
UNIT_STREET	Beresford Ave
UNIT_NUMBER	HOUSE
UNIT_BEDS	3
UNIT_BATHS	5



e Value Y	lue 1	
		Кеу
		Street_Number
		Street_Name
Value	lue Value	Street_Suffix
Ave	4 1	Unit_Number
		Beds
		Baths







Rearchitect



Кеу	Value
Building	220 Riverside Blvd.
Unit	22F
Bedrooms	1
Bathrooms	1



Douglas Ellimean REAL ESTATE







Кеу	Value
UNIT_NUMBER	619
UNIT_STREET	Beresford Ave
UNIT_NUMBER	HOUSE
UNIT_BEDS	3
UNIT_BATHS	5



Кеу	Value
STREET_NUMBER	220,9,619
STREET_NAME	Riverside,Park,Beresford
STREET_SUFFIX	Blvd.,Park,Ave
UNIT_TYPE	Apt,House,House
UNIT_SIGNATURE	{22,F},NULL,NULL
FULL_BEDROOMS	1,4,3
FULL_BATHROOMS	1,4,3
HALF_BATHROOMS	0,0,0







Throw anything you want at me! (I can manually scale)





STREET_NUMBER	220,9,619
STREET_NAME	Riverside,Park,Beresford
STREET_SUFFIX	Blvd.,Park,Ave
UNIT_TYPE	Apt,House,House
UNIT_SIGNATURE	{22,F},NULL,NULL
FULL_BEDROOMS	1,4,3
FULL_BATHROOMS	1,4,3

HALF BATHROOMS

Key





Value

0,0,0



Along comes Jeremy...







All the cool kids are doing it (and saving time and money)









So now what?







Full rearchitecture is not a viable option







Start with the easy stuff first





Key

StreetNumber

StreetName

StreetSuffix

UnitNumber

BedroomsTotal

BathroomsFull

BathroomsHalf

BathroomOneQuarter









Start with the easy stuff first









Move to where your schema is lacking







BathroomOneQuarter







Then to conflict resolution













Then to standard problems (and fix them)



Key

OWNERSHIP_TYPE



Workgroups

Data Dictionary

The RESO Data Dictionary serves as a national standard guideline for all information pertaining to MLS, Brokers and their Technology Partners. The Data Dictionary workgroup's purpose is to keep current and maintain the Data Dictionary such that it is always relevant for those parties in need of such a tool. More information about the Data Dictionary and the Data Dictionary workgroup can be found here.

Internet Tracking

Internet Tracking data is a key component for any modern day data set. No longer is having the data secure and readily available enough. True analytics that show value are now expected and commonplace in the software industry. This workgroup would propose a recommended standard for tracking RETS vendor activity, including the MLS listing. More information about Internet Tracking and the Internet Tracking workgroup can be found **here**.

Payloads

Real Estate Data is typically delivered as a package comprised of a set of data for a specific business need. The RESO Data Dictionary defines all the fields (and their specific characteristics) available to be included in a payload. The Payloads Workgroup purpose is to define Payload Categories based upon Real Estate Industry business need and which fields are to be included in each Payload Category as specified within the RESO Data Dictionary. More information about Payloads and the Payloads workgroup can be found here.

Research and Development

The purpose of the RESO Research & Development Workgroup is to solicit and review submitted business cases from the real estate community and identify how RESO can contribute to the benefit of that business process. More information about UPI and the UPI workgroup can be found **here**.

Transport/Web API

The mission of the Transport Workgroup is to provide technical processes for analyzing extensions to transport methods in current and future versions of the RETS specification. The current focus is to provide an up to date industry standard RESTful Web API interface for real estate transactions. More information about UPI and the UPI workgroup can be found here.

Universal Property Identification (UPI) Workgroup

The Universal Property Identification (UPI) Workgroup, formerly the Property Unique ID Workgroup will review and build from efforts from the U.S. government, public records industry and other data standards organizations to build the "definitive" standard for the Universal Property Identifier to be used by the real estate industry. The benefits of a Universal Property Identifier include: easier identification of parcels across market boundaries, unification of public records from multiple sources in one display, faster updates to physical property characteristics. More information about UPI and the UPI workgroup can be found **here**.

OWNERSHIP_TYPE









That wasn't so bad...







No standard is perfect...

- 1. It's worth it (not just because the cool kids are doing it)
- 2. It can be done gradually
- 3. If the standard is not working for you come help fix it









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