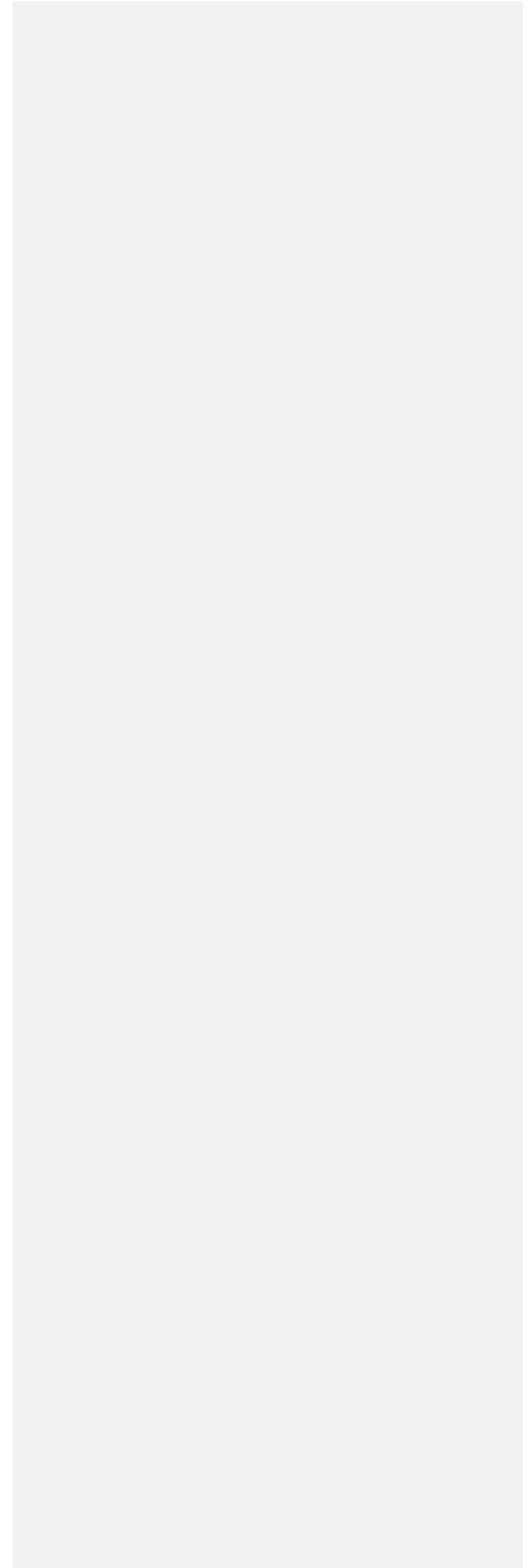


Dash Enhancement: API and Import Specification Details

Technical Specification Document
Version: 1.0



Version History

| Version Number | Date | Section Number | Action | Description | Author(s) |
|----------------|----------|----------------|---------|---|---------------|
| Draft | 02/04/21 | All | Create | Initial Version | Mahesh Totagi |
| Updated | 02/10/21 | 2.1, 2.2, 2.13 | Updated | Updated section Number 2.1, 2.13 and added section Number 2.2 | Mashes Totagi |

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1 Introduction & Document Purpose

The purpose of this document is to notify the feature enhancements in dash and specification changes in APIs and dash Import Integration process.

2 Enhanced Feature and System Behavior

2.1 Dash API Versioning

Dash API has been enhanced to support multiple versions. With current version supports the legacy specifications and the new version supports the enhanced features.

- Dash API accepts an optional header parameter **"x-rlgy-version"** with every request made to the API.
- Existing consumers of dash API are not impacted, as in case the request is missing the version header then the API by default assigns the version header as "2020-06-01".
- Version header "2020-06-01" returns the response in the existing schema/ format. Thus, continuing the support to the existing version.
- Newly enhanced features listed in section 2.2 will be supported under version header – "2021-01-01".
- Ability to access the new features (version 2.0) is made available only through Apigee endpoints and with the valid version header – "2021-01-01".
- Backward compatibility to existing features (version 1.0), via Azure APIM endpoints and Apigee endpoints will be managed by defaulting the version header as "2020-06-01".
- Both versions 1.0 and 2.0 can be consumed using the existing Apigee endpoint [dash | Realogy Developers Portal](#) with the same credentials.

| Version | Version Number | Value of "x-rlgy-version" |
|--------------------------|----------------|---------------------------|
| Current Version (Legacy) | 1.0 | 2020-06-01 |
| New Version | 2.0 | 2021-01-01 |

Please refer the document [dashAPI version support details](#) for the following details:

- List of endpoints supported in current version (version 1.0).
- List of endpoints supported in new version (version 2.0).
- List of endpoints currently supported in existing version and will be deprecated in future.

2.2 Business Rule Modifications in Current Version

Following business rules have been modified to keep it consistent with dash UI:

- Listing Virtual Open house URL should be mandatorily in URL format.
- Multiple Listing / Person custom attributes with same name in the request message will be rejected.
- Show on Internet for Listing open houses will be deprecated.

2.3 Enhanced Dash Features

1. **Listing Events:** An optional collection to feed open house events.

Supported Listing Events:

- a. LEOH: Open House (In Person)
- b. LEVOH: Livestream Virtual Open House
- c. LEQA: Livestream Q & A

2. **Listing System Custom Attributes:** An optional collection with pre-defined Listing fields defined by brands allowing Brokers and Back-office tools to send the data to dash.

3. **Listing Syndication:** An optional collection allowing to opt-out the channel partners to whom the Listing should not be syndicated through Data Sync API.

4. **Agent Press Mentions:** An optional collection that allows Brokers and Back-office tools to write Press Mentions with publication details and associated Listing information.

5. **Person System Custom Attributes:** An optional collection with pre-defined Agent fields defined by brands allowing Brokers and Back-office tools to send the data to dash.

6. **Team Add and Update:** A new feature enabled in dash API real-time; to allow Brokers and Back-office tools to add and update Team and associated information.

7. **Team Member Sequencing:** A new feature allows to sequence the team members. An optional field in the existing version and supported in the later versions.

8. **Team Custom and System Custom Attributes:** Two optional collections with pre-defined Team fields defined by brands allowing Brokers and Back-office tools to send the data to dash.

9. **Transaction Buyer Type:** A new feature allows to opt the Buyer Type in a Sale transaction. This feature is supported in the later versions.

2.4 Listing Events

2.4.1 Dash Import Feeds

The dash API schema for **Residential Sale, Residential Rental** and **Commercial Sale Listings** will be modified for new optional collection “**ListingEvents**” in the Listing entity.

- The below highlighted optional collection will be added to the existing dash API Residential Sale, Rental and Commercial Sale schema for the Batch API methods.



PS: This new feature / collection is not supported in **RFG Common specification**.

2.4.2 Dash API

- i **CodeValues_Search** operation accepts BrandCode and codeCategoryName as "ListingOpenHouseEvents" and returns the allowed Listing Event Types for the brand.
- ii dash API Listing Post, Put and Get operations will now support ListingEvents collection.

Real time API Get operations:

- a. CommercialLeaseListings_Get
- b. CommercialSaleListings_Get
- c. ResidentialRentalListings_Get
- d. ResidentialSaleListings_Get

Real time API Post and Put operations:

- a. CommercialSaleListings_Post
- b. CommercialSaleListings_Put
- c. ResidentialRentalListings_Post
- d. ResidentialRentalListings_Put
- e. ResidentialSaleListings_Post

f. ResidentialSaleListings_Put

PS: Existing dash API “Listings_PatchVirtualOpenHouse” will validate Virtual URLs.

- iii New patch operation `/listings/{id}/listingEvent` will allow to write Listing Events to dash.
- iv New patch operation `/listings/{id}/listingEvent` will allow to delete Listing Events. This endpoint accepts `startOn`, `endOn` and `EventType` (code).

2.4.3 Data Sync API

Listing operations will include Listing Events information.

- a. `GetListingById`
- b. `GetListingDelta`

2.4.4 Search API

`GetListingById` – will include Listing Events information.

2.4.5 Data Exports

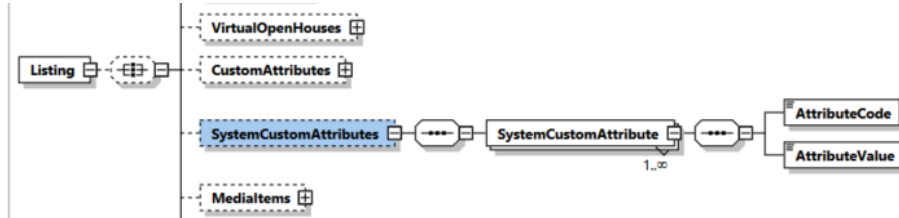
Data Exports will continue to provide Open House and Virtual Open House details as per the existing specifications.

2.5 Listing Custom Attributes

2.5.1 Dash Import Feeds

The dash API schema for **Residential Sale**, **Residential Rental** and **Commercial Sale Listings** will be modified for new optional collection “**SystemCustomAttriburtes**” in the Listing entity.

- The below highlighted optional collection will be added to the existing dash API Residential Sale, Rental and Commercial Sale schema for the Batch API methods.



PS: This new feature / collection is not supported in **RFG Common specification**.

2.5.2 Dash API

- i **CodeValues_Search** operation accepts `BrandCode` and `codeCategoryName` as "CommercialSaleListingSystemCustomAttribute", "ResidentialSaleListingSystemCustomAttribute" and "ResidentialRentalListingSystemCustomAttribute"; and returns the allowed Listing System Custom Attributes for the brand and Listing type.
- ii dash API Listing Post, Put and Get operations will now support System Custom Attributes collection.

Real time API Get operations:

- a. CommercialLeaseListings_Get
- b. CommercialSaleListings_Get
- c. ResidentialRentalListings_Get
- d. ResidentialSaleListings_Get

Real time API Post and Put operations:

- a. CommercialSaleListings_Post
- b. CommercialSaleListings_Put
- c. ResidentialRentalListings_Post
- d. ResidentialRentalListings_Put
- e. ResidentialSaleListings_Post
- f. ResidentialSaleListings_Put

PS: Existing version of dash API Listing Post and Put operations will not accept duplicate custom attributes.

The unique Number in the Custom attributes collection is an optional field and supported in version 2021-01-01 and later versions.

2.5.3 Data Sync API

Listing operations will return System custom attributes information in the existing custom attributes collection.

- a. GetListingById
- b. GetListingDelta

2.5.4 Search API

GetListingById – will return System custom attributes information in the existing custom attributes collection.

2.5.5 Data Exports

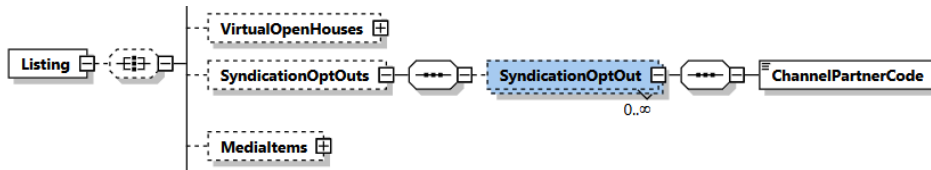
Data Exports will expose custom attribute details as per the existing specifications and will not include any new system custom attributes.

2.6 Listing Syndication

2.6.1 Dash Import Feeds

The dash API schema for **Residential Sale, Residential Rental and Commercial Sale Listings** will be modified for new optional collection “syndicationOptOuts” in the Listing entity.

- The below highlighted optional collection will be added to the existing dash API Residential Sale, Rental and Commercial Sale schema for the Batch API methods.



PS: This new feature/ collection is not supported in **RFG Common specification**.

2.6.2 Dash API

- i **CodeValues_Search** operation accepts BrandCode and codeCategoryName as "SyndicationChannel" and returns Channel partners configured for the brand in List Sync.
- ii dash API Listing Post, Put and Get operations will now support syndicationOptOuts collection.

Real time API Get operations:

- a. CommercialLeaseListings_Get
- b. CommercialSaleListings_Get
- c. ResidentialRentalListings_Get
- d. ResidentialSaleListings_Get

Real time API Post and Put operations:

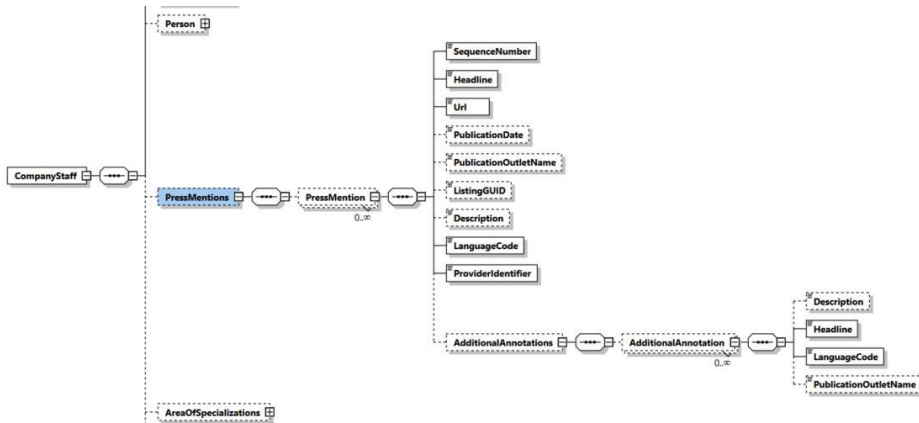
- a. CommercialSaleListings_Post
- b. CommercialSaleListings_Put
- c. ResidentialRentalListings_Post
- d. ResidentialRentalListings_Put
- e. ResidentialSaleListings_Post
- f. ResidentialSaleListings_Put

2.7 Agent Press Mentions

2.7.1 Dash Import Feeds

The dash API schema for **Company Staff** will be modified for new optional collection "**PressMentions**" in the Staff entity.

- The below highlighted optional collection will be added to the existing dash API Company Staff schema for the Batch API method.



PS: This new feature / collection is not supported in **RFG Common specification**.

2.7.2 Dash API:

dash API Company Staff Post, Put and Get operations will now support Press Mentions collection.

Real time API Get operations:

- a. CompanyStaff_Get

Real time API Post and Put operations:

- a. CompanyStaff_Post
- b. CompanyStaff_Put

2.7.3 Data Sync API

Agent operations will return Press Mentions information.

- a. GetAgentById
- b. GetAgentDelta

2.7.4 Search API

GetAgentById – will return Press Mentions information.

2.7.5 Data Exports

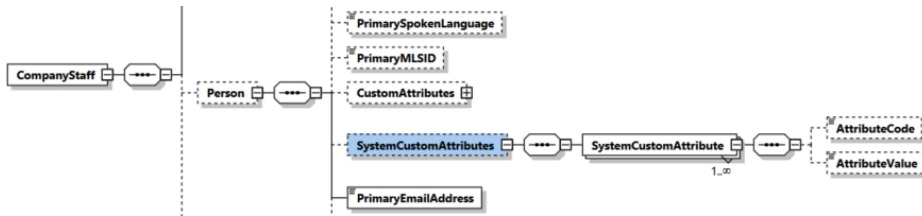
Data Exports will not expose Agent Press Mentions details.

2.8 Person Custom Attributes

2.8.1 Dash Import Feeds

The dash API schema for **Company Staff** will be modified for new optional collection **“SystemCustomAttributes”** in the Person entity.

- The below highlighted optional collection will be added to the existing dash API Company Staff schema for the Batch API methods.



PS: This new feature / collection is not supported in **RFG Common specification**.

2.8.2 Dash API

- i **CodeValues_Search** operation accepts BrandCode and codeCategoryName as "PersonSystemCustomAttribute" and returns the allowed Person System Custom Attributes for the brand.
- ii dash API Company Staff Post, Put and Get operations will now support System Custom Attributes collection.

Real time API Get operations:

- a. CompanyStaff_Get

Real time API Post and Put operations:

- a. CompanyStaff_Post
- b. CompanyStaff_Put

PS: Existing version of dash API Listing Post and Put operations will not accept duplicate custom attributes.

The unique Number in the Custom attributes collection is an optional field and supported in version 2021-01-01 and later versions.

2.8.3 Data Sync API

Listing operations will return System custom attributes information in the existing custom attributes collection.

- a. GetAgentByld
- b. GetAgentDelta

2.8.4 Search API

GetAgentByld – will return System custom attributes information in the existing custom attributes collection.

2.8.5 Data Exports

Data Exports will expose custom attribute details as per the existing specifications and will not include any new system custom attributes.

2.9 Teams Add and Update

2.9.1 Dash API

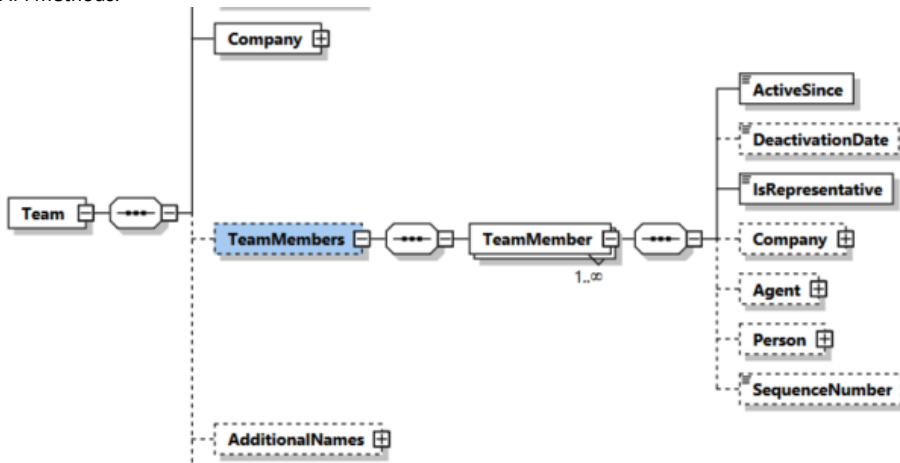
dash API supports two new operations **Team_Post** and **Team_Put**.

2.10 Team Member Sequence Number

2.10.1 Dash Import Feeds

The dash API schema for **Team** will be modified for new optional attribute “**SequencNumber**” in Team Members collection.

- The below highlighted optional field will be added to the existing dash API Team schema for the Batch API methods.



PS: This new feature / collection is not supported in **RFG Common specification**.

2.10.2 Dash API

dash API Team Post, Put and Get operations will support Sequence Number field in members collection.

Real time API Get operations:

- Teams_Get

Real time API Post and Put operations:

- Teams_Post
- Teams_Put

2.10.3 Data Sync API

Team operations will return Sequence Number in the existing members collection.

- GetTeamById
- GetTeamDelta

2.10.4 Search API

Team operations will return Sequence Number in the existing members collection.

- GetTeamById
- GetTeams

2.10.5 Data Exports

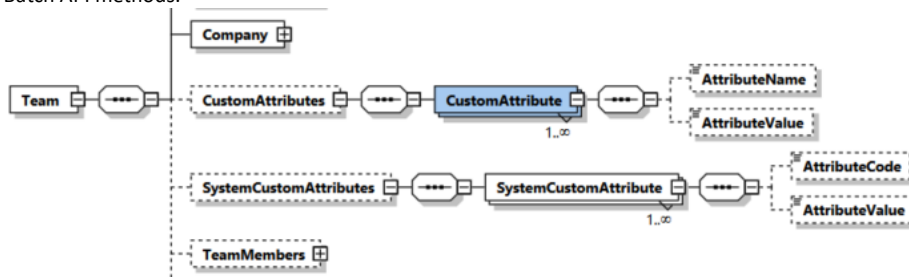
Data Exports will not return team member sequence number.

2.11 Team Custom Attributes

2.11.1 Dash Import Feeds

The dash API schema for **Teams** will be modified for two new optional collections “**customAttributes**” “**SystemCustomAttributes**” in the Teams entity.

- The below highlighted optional collections will be added to the existing dash API Team schema for the Batch API methods.



PS: This new feature / collection is not supported in **RFG Common specification**.

2.11.2 Dash API

i **CodeValues_Search** operation accepts BrandCode and codeCategoryName as "TeamSystemCustomAttribute" and returns the allowed Team System Custom Attributes for the brand.

ii dash API Team Post, Put and Get operations will support Custom Attributes and System Custom Attributes collection.

Real time API Get operations:

a. Teams_Get

Real time API Post and Put operations:

a. Teams_Post

b. Teams_Put

2.11.3 Data Sync API

Team operations will return custom attributes and system custom attributes information in the custom attributes collection.

a. GetTeamById

b. GetTeamDelta

2.11.4 Search API

Team operations will return custom attributes and system custom attributes information in the custom attributes collection.

- a. GetTeamById
- b. GetTeams

2.11.5 Data Exports

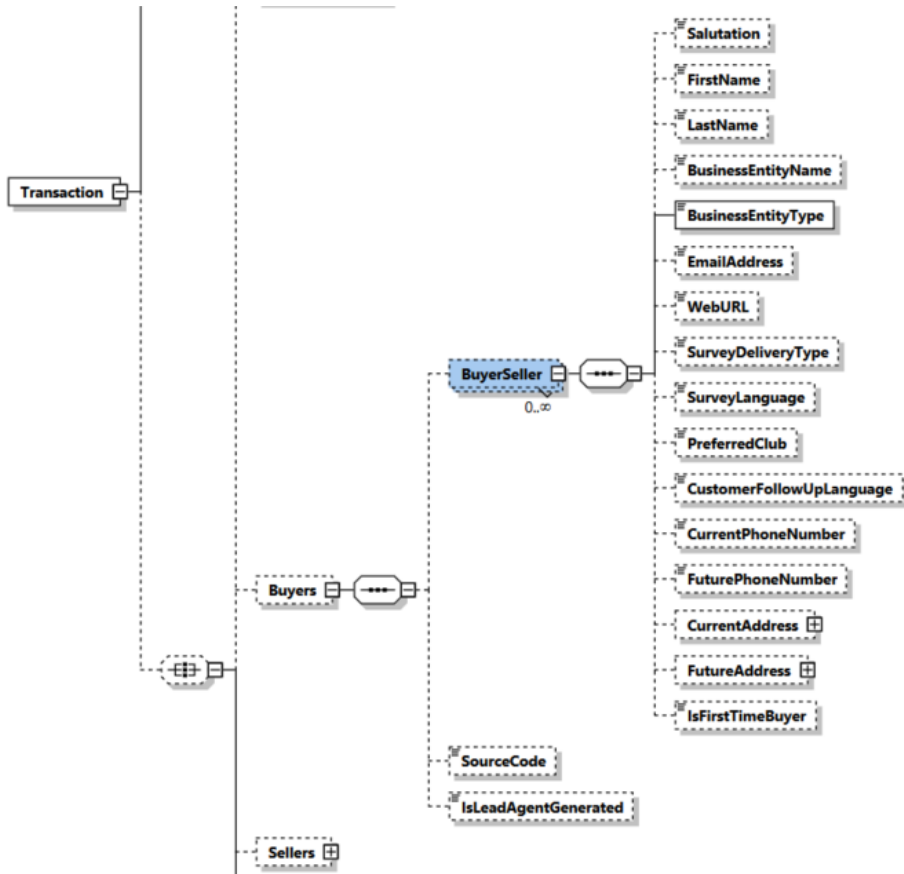
Data Exports will not expose custom attribute details.

2.12 Transaction Buyer Type

2.12.1 Dash Import Feeds

The dash API schema for **TransactionSale** will be modified for new optional attribute **“IsFirstTimeBuyer”** in Buyer’s collection.

- The below highlighted optional field will be added to the existing dash API TransactionSale schema for the Batch API methods.



PS: This new feature / collection is not supported in **RFG Common specification**.

2.12.2 Dash API

dash API Sale Transactions Post, Put and Get operations will support isFirstTimeBuyer field in buyers' collection.

Real time API Get operations:

SaleTransactions_Get

Real time API Post and Put operations:

SaleTransactions_Post and SaleTransactions_Put

2.13 Dash Import Specifications

Revised dash import specifications are available at:

[Commercial Listing Import Spec](#)

[Rental Listing Import Spec](#)

Residential Listing Import Spec
Company Staff Import Spec
Team Import Spec
Transaction OtherIncome Import Spec
Transaction Sale Import Spec

Commented [PS1]: These are the downloads. What needs to be done?