



REALOGY FRANCHISE GROUP

# dash enhancement: API and Import Specification details

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Technical Specification Document

Version: 1.0

## Version History

Version #	Date	Section #	Action	Description	Author(s)
Draft	04/25/22	All	Create	Initial version	Mahesh Totagi
Updated	05/17/22	2.2, 2.10	Update	Updates related to <b>Agent MLS/ board is a required field</b>	Mahesh Totagi
Updated	05/31/22	2.2, 2.6, 2.10	Delete	Revoked changes related to <b>Associate Administrative Assistant to Agents</b>	Mahesh 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 legacy version supporting the initial spec and the new versions supporting 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
- Ability to access the new features - version 2.0 and onwards, is made available only through Apigee endpoints and with the valid version header
- Backward compatibility to existing features (version 1.0), via Azure APIM endpoints and Apigee endpoints will be managed by defaulting the version header – “2020-06-01”
- API version 1.0, version 2.0 and onwards can be consumed using the existing Apigee endpoint [dash | Realogy Developers Portal](#); and with same credentials

Version	Version #	Value of ‘x-rlgy-version’
Initial Version (Legacy)	1.0	2020-06-01
Enhanced Version	2.0	2021-01-01
Enhanced Version	2.1	2021-04-01
<a href="#">Enhanced Version</a>	<a href="#">3.0</a>	<a href="#">2022-01-01</a>

Please refer to 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 and onwards)
- List of endpoints currently supported in existing version and will be deprecated in future

### 2.2 Enhanced dash features:

- Commercial Lease Listings Add and Update:** A new feature enabled in dash API real-time that will allow Brokers and Back-office tools to add and update Commercial Lease Listings information.
- Commercial Lease Transactions Retrieve, Add and Update:** A new feature enabled in dash API real-time that will allow Brokers and Back-office tools to add, update and retrieve Commercial Lease Transaction information.
- Residential Rental Transactions Retrieve, Add and Update:** A new feature enabled in dash API real-time that will allow Brokers and Back-office tools to add, update and retrieve Residential Rental Transaction information.

4. **Reinstate display start and end dates for listing open houses:** dash API will provide an ability to opt a listing from displaying start and end date/time for upcoming In-Person Open House, Livestream Virtual Open House, and Livestream Q&A.
5. **Restrict API accepting staff positions by company:** dash has been enhanced not to allow the API to accept sales positions that are not viable positions for a given company. dash API will restrict vendors from applying International-only Sales roles to Domestic Sales staff and vice-versa.
6. **Listings and Transactions API Add and Update to accept status code:** Listing and Transactions endpoints in dash API have been enhanced to accept and resolve the status based on status code/ reportedAs code. Status description in the request message will not be honored during entity Add and Updates.
7. **Agent MLS/ board is a required field:** dash API has been enhanced to enforce the rule of mandating the board name when the Agent MLS Id is provided. Agent profile add/ update requests will be rejected, if the request includes Agent MLS Id without MLS Name information.

## 2.3 Commercial Lease Listings Add and Update:

### 2.3.1 Dash API:

dash API supports two new operations:

Real time API Post and Put operations:

- a. CommercialLeaseListings\_Post
- b. CommercialLeaseListings\_Put

Supported data attributes, mandatory fields and business rules information is available in the Apigee Swagger documentation.

**Additionally, Lease Listing Add and Update endpoints will have/not the behavior illustrated below:**

1. Lease Listing POST and PUT endpoints are supported in v3.0 and onwards
2. v3.0 and onwards will have support for *isPrimary* flag in *additionalMLSDetails* collection
3. v3.0 and onwards will not have support for *primaryAgent*, *otherAgents*, *openHouses*, *virtualOpenHouses*, *listingEvents* collections
4. v3.0 and onwards will not have support for *additionalMLS* collection and *primaryMLS*, *primaryMLSBoard* fields in the summary section

**Lease Listing Get endpoint will have/not the behavior illustrated below:**

1. v3.0 and onwards will have support for *listingAgents* collection and *isPrimary* flag in *additionalMLSDetails* collection
2. v3.0 and onwards will not have support for *primaryAgent*, *otherAgents*, *openHouses*, *virtualOpenHouses*, *listingEvents* collections
3. v3.0 and onwards will not have support for *additionalMLS* collection and *primaryMLS*, *primaryMLSBoard* fields in the summary section

Existing versions (v1.0 - v2.1) will have support for *primaryAgent*, *otherAgents*, *openHouses*, *virtualOpenHouses*, *listingEvents*, *additionalMLS* collections and *primaryMLS*, *primaryMLSBoard* fields in the summary section

Swagger snippet for reference:

```
{
  "additionalDetails": {
    "expiresOn": "2022-01-15T18:25:43.511Z",
    "withdrawnOn": "2022-01-15T18:25:43.511Z",
    "closedOn": "2022-01-15T18:25:43.511Z",
    "sellers": {
      "buyerSellers": [
        {
          "phoneNumber": "1234567",
          "address": {
            "addressLine1": "123, main street",
            "addressLine2": "New York",
            "addressLine3": "Southern District of New York",
            "city": "New York",
            "postalCode": "123445",
            "stateProvinceCode": "NJ",
            "stateProvinceName": "ABCD",
            "countryCode": "CA",
            "countryName": "Canada"
          },
          "typeCode": "P",
          "typeDescription": "Person",
          "salutation": "Mr.",
          "firstName": "Mary",
          "lastName": "Sparks",
          "businessEntityName": "George J. Bidlen",
          "emailAddress": "email@domain.com",
          "website": "http://commercial.century21.com/"
        }
      ],
      "leadSourceCode": "1",
      "leadSourceDescription": "Brand Toll Free",
      "isAgentGenerated": true
    }
  },
  "syndicationOptOuts": [
    {
      "channelPartnerCode": "3625",
      "channelPartnerDescription": "description of the channelPartner"
    }
  ],
  "minLeaseRate": 40.73061,
  "maxLeaseRate": 40.73061,
  "leaseTermCode": "FY",
  "leaseTermDescription": "per sqft. / Year",
  "leaseTypeCode": "P",
  "leaseTypeDescription": "Residential Sale",
  "occupancyRate": 22555,
  "isAllowMapping": true,
  "availableSpace": 40.73061,
  "subunits": [
    {
      "suiteName": "string",
      "area": 40.73061,
      "columnSpacing": 2147483647,
      "fullBath": 2,
      "halfBath": 2,
      "rate": 40.73061,
      "rateUnitCode": "FM",
      "rateUnitDescription": "per sqft. / Year",
    }
  ]
}
```



```

    "leaseTerm": "40.73061",
    "isAvailable": true
  }
],
"availableFloors": 32767,
"statusCode": "PP",
"statusDescription": "Active",
"propertyDetails": {
  "isGroundLevel": true,
  "industrialPower": "string",
  "hasRailAccess": true,
  "hasSprinkler": true,
  "turningRadius": "string",
  "hasCrossDocks": true,
  "isSublease": true,
  "ceilingHeight": "string",
  "columnSpacing": "string",
  "clearance": "owest hanging ceiling member",
  "dockHeight": "string",
  "numberOfDocks": 23321,
  "totalUnits": 23321,
  "capRatePercent": 40.73061,
  "parkingRatio": 40.73061,
  "commonAreaFactor": 40.73061,
  "maxContiguousArea": 40.73061,
  "minDivisibleArea": 40.73061,
  "anchorStores": "string",
  "agriculturalPropertyNumber": "23321",
  "averageOccupancyRate": 40.73061,
  "numberOfBallrooms": 23321,
  "numberOfConferenceRooms": 23321,
  "averageFloorSize": 40.73061,
  "typeCode": "P",
  "typeDescription": "Individual",
  "subtypeCode": "1",
  "subtypeDescription": "Individual",
  "styleCode": "341",
  "styleDescription": "1 Level Ranch",
  "useCode": "01",
  "useDescription": "Rental or Investment",
  "location": {
    "district": "Southern District of New York",
    "latitude": 40.73061,
    "longitude": -73.935242,
    "addressLine1": "123, main street",
    "addressLine2": "New York",
    "addressLine3": "Southern District of New York",
    "city": "New York",
    "postalCode": "123445",
    "stateProvinceCode": "NJ",
    "stateProvinceName": "ABCD",
    "countryCode": "CA",
    "countryName": "Canada"
  },
  "sourcePropertyType": "DLTBS",
  "noOfBedrooms": 4,
  "buildingArea": 40.73061,
  "buildingAreaUnitCode": "HC",
  "buildingAreaUnitDescription": "Hectares",
  "fullBath": 2,
  "halfBath": 2,
  "threeQuarterBath": 2,
  "quarterBath": 2,
  "propertyName": "114 The High Road",

```



```

"lotSize": 40.73061,
"lotSizeUnitCode": "AC",
"lotSizeUnitDescription": "Acres",
"taxRoll": "3265",
"totalRooms": 2,
"totalAcres": 40.73061,
"yearBuilt": 1990,
"yearRenovated": 2020,
"lastSoldOn": "2022-01-15T18:25:43.511Z",
"parkingPlaces": 0,
"lotDimension": "80x145x80x145",
"levels": 2,
"zoning": "2017-04-23T18:25:43.511Z",
"zoomLevel": 100,
"propertyLocation": "123, main street",
"elementarySchoolDistrict": "Brooklyn",
"middleSchoolDistrict": "Brooklyn",
"highSchoolDistrict": "Brooklyn",
"apnNumber": "A15326",
"features": [
  {
    "featureCode": "Features - 72, 575",
    "featureDescription": "Property Features - New Construction",
    "featureGroupCode": "Group - 41, 14",
    "featureGroupDescription": "Feature Group - Age, Cooling. and Listing Feature Group - Fur
nished"
  }
],
"floors": [
  {
    "floorName": "mezzanine floor",
    "dimensionUnitCode": "2",
    "dimensionUnitDescription": "Meters",
    "length": 40.73061,
    "width": 40.73061,
    "description": "string"
  }
],
"rooms": [
  {
    "roomName": "Extra Room",
    "sequenceNumber": 1,
    "length": 40.73061,
    "width": 40.73061,
    "dimensionUnitCode": "2",
    "dimensionUnitDescription": "Meters"
  }
],
"schools": [
  {
    "schoolName": "ACELLUS High Shool",
    "type": "string",
    "sequenceNumber": 1,
    "distanceFromProperty": "123"
  }
],
"additionalPropertyNames": [
  {
    "propertyName": "114 The High Road",
    "languageCode": "en",
    "languageName": "English"
  }
]
},

```



```

"primaryAgent": {
  "companyStaffGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
  "company": {
    "companyGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "companyId": "2685",
    "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "commercialCompanyName": "string"
  },
  "primaryOffice": {
    "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "companyId": "A1BCDE",
    "officeId": "001",
    "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
  },
  "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
  "personGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
  "salutation": "Mr.",
  "firstName": "Mary",
  "middleName": "Mary",
  "lastName": "Sparks",
  "nameSuffix": "Mr.",
  "personProviderIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
  "primaryPhoneNumber": "1234567",
  "primaryEmailAddress": "email@domain.com",
  "primaryWebsite": "http://commercial.century21.com/"
},
"development": "Riverside Meadows",
"brokerReferenceNumber": "string",
"daysOnMarket": 365,
"isNewConstruction": true,
"isCallToShow": true,
"isPriceUponRequest": true,
"isByAppointmentOnly": true,
"dateAvailable": "2022-01-15T18:25:43.511Z",
"team": {
  "teamGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
  "rfgTeamId": "stri",
  "teamName": "string",
  "company": {
    "companyGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "companyId": "2685",
    "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "commercialCompanyName": "string"
  },
  "brandCode": "C21",
  "teamTypeCode": "A",
  "teamTypeDescription": "Associate",
  "primaryPhoneNumber": "1234567",
  "primaryEmailAddress": "email@domain.com",
  "primaryWebsite": "http://commercial.century21.com/",
  "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
},
"customAttributes": [
  {
    "attributeName": "string",
    "attributeValue": "New York",
    "uniqueNumber": 3265
  }
],
"openHouses": [
  {
    "startOn": "2022-01-15T18:25:43.511Z",
    "endOn": "2022-01-15T18:25:43.511Z",
    "isShowOnInternet": true,

```





```

    "isByAppointment": true,
    "remarks": "remark about the open house"
  }
],
"virtualOpenHouses": [
  {
    "startOn": "2022-01-15T18:25:43.511Z",
    "endOn": "2022-01-15T18:25:43.511Z",
    "isShowOnInternet": true,
    "isByAppointment": true,
    "remarks": "remark about the open house",
    "virtualURL": "http://commercial.century21.com/"
  }
],
"systemCustomAttributes": [
  {
    "attributeCode": "3265",
    "attributeDescription": "description of the system custom attribute.",
    "attributeValue": "New York",
    "uniqueNumber": 3265
  }
],
"listingEvents": [
  {
    "startOn": "2022-01-15T18:25:43.511Z",
    "endOn": "2022-01-15T18:25:43.511Z",
    "isByAppointment": true,
    "isShowOnInternet": true,
    "remarks": "remark about the open house",
    "url": "http://commercial.century21.com/",
    "eventTypeCode": "string",
    "eventTypeDescription": "Listing Event description",
    "listingEventGuid": "19812955-9b65-48eb-b911-2c6430fdd324"
  }
],
"listingAgents": [
  {
    "companyStaffGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "company": {
      "companyGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "companyId": "2685",
      "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "commercialCompanyName": "string"
    },
    "primaryOffice": {
      "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "companyId": "A1BCDE",
      "officeId": "001",
      "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
    },
    "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "personGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "salutation": "Mr.",
    "firstName": "Mary",
    "middleName": "Mary",
    "lastName": "Sparks",
    "nameSuffix": "Mr.",
    "personProviderIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "primaryPhoneNumber": "1234567",
    "primaryEmailAddress": "email@domain.com",
    "primaryWebsite": "http://commercial.century21.com/",
    "sequenceNumber": 1,
    "isPrimary": true
  }
]

```



```

],
"listingFees": [
  {
    "feeType": "Online transaction",
    "fee": 40.73061,
    "frequencyCode": "4",
    "frequencyDescription": "Quarterly"
  }
],
"township": "New York",
"postOffice": "123445",
"cityRegions": [
  "string"
],
"stateRegions": [
  "string"
],
"countryRegions": [
  "string"
],
"continentRegions": [
  "string"
],
"neighborhood": [
  "string"
],
"otherAgents": [
  {
    "companyStaffGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "company": {
      "companyGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "companyId": "2685",
      "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "commercialCompanyName": "string"
    },
    "primaryOffice": {
      "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "companyId": "A1BCDE",
      "officeId": "001",
      "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
    },
    "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "personGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "salutation": "Mr.",
    "firstName": "Mary",
    "middleName": "Mary",
    "lastName": "Sparks",
    "nameSuffix": "Mr.",
    "personProviderIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "primaryPhoneNumber": "1234567",
    "primaryEmailAddress": "email@domain.com",
    "primaryWebsite": "http://commercial.century21.com/"
  }
],
"media": [
  {
    "mediaGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "sequenceNumber": 1,
    "category": "Listing Photo",
    "isDefault": true,
    "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "height": 1200,
    "width": 1800,
    "url": "http://commercial.century21.com/",
  }
]

```



```

"caption": "Listing Photo",
"description": "string",
"htmlDescription": "<b>press mention text here<b>",
"formatCode": "UR",
"formatDescription": "Image",
"isLandscape": true,
"additionalAnnotations": [
  {
    "caption": "Listing Photo",
    "description": "string",
    "htmlDescription": "<b>press mention text here<b>",
    "languageCode": "en",
    "languageName": "English"
  }
],
"resolutionUrls": [
  {
    "url": "http://realogy.com/agent.jpg",
    "resolution": "EDG Thumbnail",
    "height": 1200,
    "width": 1800,
    "isLandscape": true
  }
],
"mediaTags": [
  {
    "tagCode": "5",
    "tagDescription": "Dining Rooms"
  }
],
"videoLength": 0
},
"additionalMLS": [
  "string"
],
"additionalMLSDetails": [
  {
    "mlsId": "MLS12345",
    "board": "2c6c2521-f58d-e911-8118-005056b96624"
  }
],
"remarks": "remark about the open house",
"websites": [
  {
    "websiteTypeCode": "BU",
    "websiteTypeDescription": "ListingWebAddressType",
    "url": "http://commercial.century21.com/",
    "contentLanguageCode": "en",
    "contentLanguageName": "English",
    "websiteName": "http://commercial.century21.com/"
  }
],
"features": [
  {
    "featureCode": "Features - 72, 575",
    "featureDescription": "Property Features - New Construction",
    "featureGroupCode": "Group - 41, 14",
    "featureGroupDescription": "Feature Group - Age, Cooling. and Listing Feature Group - Furni
shed"
  }
],
"additionalProgramDetails": [
  {

```



```

    "featureCode": "Features - 72, 575",
    "featureDescription": "description of the property",
    "StatusCode": "AC",
    "StatusDescription": "Permanently Rejected",
    "StatusReason": {
      "JustificationCode": "2135",
      "JustificationDescription": "description about status"
    }
  }
],
"listingGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
"listingId": "2c6c2521-f58d-e911-8118-005056b96624",
"office": {
  "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
  "companyId": "A1BCDE",
  "officeId": "001",
  "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
},
"primaryMLS": "A1235",
"primaryMLSBoard": "A1235",
"listedDate": "2022-01-15T18:25:43.511Z",
"currencyCode": "USD",
"currencyName": "US Dollar",
"isShowAddressOnInternet": true,
"isHideListPrice": true,
"isShowOnInternet": true,
"providerIdentifier": "string"
}

```

## 2.4 Commercial Lease Transactions Retrieve, Add and Update:

### 2.4.1 Dash API:

dash API supports three new operations:

#### Real time API Get operations:

- a. CommercialLeaseTransactions\_Get

#### Real time API Post and Put operations:

- a. CommercialLeaseTransactions\_Post
- b. CommercialLeaseTransactions\_Put

Supported data attributes, mandatory fields and business rules information is available in the Apigee Swagger documentation.

#### **Additionally, Lease Transactions endpoints will have/not the behavior illustrated below:**

1. Batch API (dash and RFG Import Specs) will not support add and update of lease transactions
2. Realtime API will not support Step lease transactions
3. Realtime API will not allow updates to transactions in expired, unknown, terminated, withdrawn, suspended, dead deal and deleted statuses
4. Realtime API will not support Agreement renewal, revocation of renewed agreement, suspension, deletion and payment regeneration functionality
5. Realtime API will not add a new payment schedule if the payment received is less than scheduled amount. New payment schedule(s) should be explicitly added to match Total Gross Commission with scheduled amounts

6. Realtime API will not adjust/ update the Adjusted Gross Commission or the schedule, if the scheduled receivables is less than Agreement's Adjusted Gross Commission. These requests will be rejected with a business rule exception message

**CodeValues\_Search** operation accepts BrandCode and following codeCategoryName to return the allowed lookup values for the brand.

Code Category	codeCategoryName
Property Type	PropertyType
Property Sub Type	PropertySubType
Property Style	PropertyStyle
Property Use	PropertyUse
Outside Broker Brand	ReferralBrand
Lease Area Unit	AreaUnit
Rate	LeaseTerm
Terms (month)	Side
Referral Type	BusinessEntityType
Referral Network Type	ReferralNetwork
Landlord Type	BusinessEntityType
Tenant Source Type	SellerBuyerSource
Tenant Type	BusinessEntityType
Payment Frequency Type	Frequency

Swagger snippet for reference:

```
{
  "propertyAddress": {
    "addressLine1": "123, main street",
    "addressLine2": "New York",
    "addressLine3": "Southern District of New York",
    "city": "New York",
    "postalCode": "123445",
    "stateProvinceCode": "NJ",
    "stateProvinceName": "ABCD",
    "countryCode": "CA",
    "countryName": "Canada"
  },
  "listingDetails": {
    "typeCode": "1",
    "typeDescription": "Residential Sale",
    "listingGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "listingId": "2c6c2521-f58d-e911-8118-005056b96624",
    "office": {
      "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "companyId": "A1BCDE",
      "officeId": "001",
      "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
    },
    "primaryMLS": "A1235",
    "listedDate": "2022-01-15T18:25:43.511Z",
    "listPrice": 40.73061,
    "currencyCode": "USD",
    "currencyName": "US Dollar",
    "isShowAddressOnInternet": true,
    "isHideListPrice": true,
  }
}
```



```

    "isForeclosure": true,
    "isShowOnInternet": true,
    "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
  },
  "listingOffice": {
    "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "companyId": "A1BCDE",
    "officeId": "001",
    "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
  },
  "agreementSideOffice": {
    "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "companyId": "A1BCDE",
    "officeId": "001",
    "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
  },
  "statusCode": "CL",
  "statusDescription": "Closed",
  "isRenewable": true,
  "isSubLeasable": true,
  "concessionAmount": 40.73061,
  "agreementOn": "2022-01-15T18:25:43.511Z",
  "commencementOn": "2022-01-15T18:25:43.511Z",
  "expiresOn": "2022-01-15T18:25:43.511Z",
  "suspendedOn": "2022-01-15T18:25:43.511Z",
  "terminatedOn": "2022-01-15T18:25:43.511Z",
  "closedOn": "2022-01-15T18:25:43.511Z",
  "extendedOn": "2022-01-15T18:25:43.511Z",
  "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
  "grossRent": 40.73061,
  "totalGrossCommission": 40.73061,
  "agreementSideGrossCommission": 40.73061,
  "listSideGrossCommission": 40.73061,
  "mlsNumber": "PL-45363",
  "outsideBrokerCommission": 40.73061,
  "adjustedGrossCommission": 40.73061,
  "listSideSACCommission": 40.73061,
  "agreementSideSACCommission": 40.73061,
  "outsideBrokerOfficeName": "Coldwell Banker Real Estate Advisors",
  "outsideBrokerBrand": "Coldwell Banker",
  "outsideBroker": {
    "firstName": "Mary",
    "lastName": "Sparks",
    "email": "email@domain.com"
  },
  "listingSideAgents": [
    {
      "agent": {
        "companyStaffGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "company": {
          "companyGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
          "companyId": "2685",
          "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
          "commercialCompanyName": "string"
        },
        "primaryOffice": {
          "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
          "companyId": "A1BCDE",
          "officeId": "001",
          "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
        },
        "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "personGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "salutation": "Mr."
      }
    }
  ]

```



```

    "firstName": "Mary",
    "middleName": "Mary",
    "lastName": "Sparks",
    "nameSuffix": "Mr.",
    "personProviderIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "primaryPhoneNumber": "1234567",
    "primaryEmailAddress": "email@domain.com",
    "primaryWebsite": "http://commercial.century21.com/"
  },
  "commissionPercentage": 40.73061,
  "isPrimary": true,
  "saCommission": 40.73061
}
],
"agreementSideAgents": [
  {
    "agent": {
      "companyStaffGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "company": {
        "companyGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "companyId": "2685",
        "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "commercialCompanyName": "string"
      },
      "primaryOffice": {
        "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "companyId": "A1BCDE",
        "officeId": "001",
        "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
      },
      "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "personGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "salutation": "Mr.",
      "firstName": "Mary",
      "middleName": "Mary",
      "lastName": "Sparks",
      "nameSuffix": "Mr.",
      "personProviderIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "primaryPhoneNumber": "1234567",
      "primaryEmailAddress": "email@domain.com",
      "primaryWebsite": "http://commercial.century21.com/"
    },
    "commissionPercentage": 40.73061,
    "isPrimary": true,
    "saCommission": 40.73061
  }
],
"referrals": [
  {
    "salutation": "Mr.",
    "firstName": "Mary",
    "lastName": "Sparks",
    "entityName": "Office Export",
    "typeCode": "P",
    "typeDescription": "Residential Sale",
    "networkTypeCode": "CA",
    "networkTypeDescription": "Global Client Solutions",
    "referralBrandDescription": "Better Homes and Gardens",
    "sideCode": "L",
    "sideDescription": "Listing",
    "referralAmount": 40.73061,
    "address": {
      "addressLine1": "123, main street",
      "addressLine2": "New York",

```



```

    "addressLine3": "Southern District of New York",
    "city": "New York",
    "postalCode": "123445",
    "stateProvinceCode": "NJ",
    "stateProvinceName": "ABCD",
    "countryCode": "CA",
    "countryName": "Canada"
  },
  "phoneNumber": "1234567",
  "receivedFromAgent": {
    "companyStaffGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "company": {
      "companyGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "companyId": "2685",
      "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "commercialCompanyName": "string"
    },
    "primaryOffice": {
      "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "companyId": "A1BCDE",
      "officeId": "001",
      "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
    },
    "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "personGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "salutation": "Mr.",
    "firstName": "Mary",
    "middleName": "Mary",
    "lastName": "Sparks",
    "nameSuffix": "Mr.",
    "personProviderIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "primaryPhoneNumber": "1234567",
    "primaryEmailAddress": "email@domain.com",
    "primaryWebsite": "http://commercial.century21.com/"
  },
  "agentsInReferral": [
    {
      "referralAmount": 922337203685477.6,
      "companyStaffGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "company": {
        "companyGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "companyId": "2685",
        "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "commercialCompanyName": "string"
      },
      "primaryOffice": {
        "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "companyId": "A1BCDE",
        "officeId": "001",
        "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
      },
      "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "personGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "salutation": "Mr.",
      "firstName": "Mary",
      "middleName": "Mary",
      "lastName": "Sparks",
      "nameSuffix": "Mr.",
      "personProviderIdentifier": "2c6c2521-f58d-e911-8118-005056b96624",
      "primaryPhoneNumber": "1234567",
      "primaryEmailAddress": "email@domain.com",
      "primaryWebsite": "http://commercial.century21.com/"
    }
  ]
}
]

```



```

    }
  ],
  "expenses": [
    {
      "typeCode": "OT",
      "typeDescription": "ExpenseType",
      "amount": 40.73061,
      "remarks": "remark about the open house",
      "sideCode": "L",
      "sideDescription": "Listing"
    }
  ],
  "landlord": {
    "landlordTenants": [
      {
        "participantGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "personGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "businessEntityGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "phone": "1234567",
        "address": {
          "addressLine1": "123, main street",
          "addressLine2": "New York",
          "addressLine3": "Southern District of New York",
          "city": "New York",
          "postalCode": "123445",
          "stateProvinceCode": "NJ",
          "stateProvinceName": "ABCD",
          "countryCode": "CA",
          "countryName": "Canada"
        },
        "typeCode": "1",
        "typeDescription": "Residential Sale",
        "salutation": "Mr.",
        "firstName": "Mary",
        "lastName": "Sparks",
        "businessEntityName": "George J. Bidlen",
        "emailAddress": "email@domain.com",
        "website": "http://commercial.century21.com/"
      }
    ],
    "leadSourceCode": "9",
    "leadSourceDescription": "Buyers",
    "isAgentGenerated": true
  },
  "tenant": {
    "landlordTenants": [
      {
        "participantGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "personGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "businessEntityGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "phone": "1234567",
        "address": {
          "addressLine1": "123, main street",
          "addressLine2": "New York",
          "addressLine3": "Southern District of New York",
          "city": "New York",
          "postalCode": "123445",
          "stateProvinceCode": "NJ",
          "stateProvinceName": "ABCD",
          "countryCode": "CA",
          "countryName": "Canada"
        },
        "surveyDeliveryTypeCode": "P",
        "surveyDeliveryTypeDescription": "Email",

```



```

    "surveyLanguageCode": "en",
    "surveyLanguageName": "English",
    "preferredClubCode": "2, 5",
    "preferredClubDescription": "2 Year Plan ($25)",
    "typeCode": "1",
    "typeDescription": "Residential Sale",
    "salutation": "Mr.",
    "firstName": "Mary",
    "lastName": "Sparks",
    "businessEntityName": "George J. Bidlen",
    "emailAddress": "email@domain.com",
    "website": "http://commercial.century21.com/"
  }
],
"leadSourceCode": "123",
"leadSourceDescription": "nztcsvv.e2LdSKjZYorkEAT6A935n",
"isAgentGenerated": true
},
"commissionSchedule": {
  "isAdhocPayment": true,
  "frequencyCode": "4",
  "frequencyDescription": "Quarterly",
  "totalAmount": 922337203685477.6,
  "balanceAmount": 922337203685477.6,
  "commissionSchedule": [
    {
      "commissionScheduleGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "scheduledOn": "2022-01-15T18:25:43.511Z",
      "amountScheduled": 40.73061,
      "payments": [
        {
          "paymentGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
          "paymentId": "2c6c2521-f58d-e911-8118-005056b96624",
          "checkNumber": "324567544",
          "amountReceivedOn": "2022-01-15T18:25:43.511Z",
          "amountReceived": 40.73061,
          "providerIdentifier": "2c6c2521-f58d-e911-8118-005056b96624"
        }
      ]
    }
  ]
}
]
},
"currencyCode": "USD",
"currencyName": "US Dollar",
"propertyTypeCode": "R",
"propertyTypeDescription": "Commercial",
"propertySubtypeCode": "1",
"propertySubtypeDescription": "Person",
"propertyStyleCode": "341",
"propertyStyleDescription": "1 Level Ranch, Apartment",
"propertyUseCode": "01",
"propertyUseDescription": "Owner Occupied",
"propertyName": "114 The High Road",
"leaseArea": 1500,
"leaseAreaUnitCode": "198",
"leaseAreaUnitDescription": "string",
"rate": 40.73061,
"rateTermCode": "FM",
"rateTermDescription": "per sqft. / Year",
"termMonths": 4,
"termPartialMonths": 0.5
}

```



## 2.5 Residential Rental Transactions Retrieve, Add and Update:

### 2.5.1 Dash API:

dash API supports three new operations:

Real time API Get operations:

- a. ResidentialRentalTransactions\_Get

Real time API Post and Put operations:

- c. ResidentialRentalTransactions\_Post
- d. ResidentialRentalTransactions\_Put

Supported data attributes, mandatory fields and business rules information is available in the Apigee Swagger documentation.

**Additionally, Rental Transactions endpoints will have/not the behavior illustrated below:**

1. Batch API (dash and RFG Import Specs) will not support add and update of rental transactions
2. Realtime API will not allow updates to transactions in expired, unknown, terminated, withdrawn, suspended, dead deal and deleted statuses
3. Realtime API will not support Agreement renewal, revocation of renewed agreement, suspension, deletion and payment regeneration functionality
4. Realtime API will not add a new payment schedule if the payment received is less than scheduled amount. New payment schedule(s) should be explicitly added to match Total Gross Commission with scheduled amounts
5. Realtime API will not adjust/ update the Adjusted Gross Commission or the schedule, if the scheduled receivables is less than Agreement's Adjusted Gross Commission. These requests will be rejected with a business rule exception message

**CodeValues\_Search** operation accepts BrandCode and following codeCategoryName to return the allowed lookup values for the brand.

Code Category	codeCategoryName
Property Type	PropertyType
Property Sub Type	PropertySubType
Property Style	PropertyStyle
Property Use	PropertyUse
Outside Broker Brand	ReferralBrand
Lease Area Unit	AreaUnit
Rate	LeaseTerm
Terms (month)	Side
Referral Type	BusinessEntityType
Referral Network Type	ReferralNetwork
Landlord Type	BusinessEntityType
Tenant Source Type	SellerBuyerSource
Tenant Type	BusinessEntityType
Payment Frequency Type	Frequency

Swagger snippet for reference:

```
{
  "propertyAddress": {
    "addressLine1": "123, main street",
    "addressLine2": "New York",
    "addressLine3": "Southern District of New York",
    "city": "New York",
    "postalCode": "123445",
    "stateProvinceCode": "NJ",
    "stateProvinceName": "ABCD",
    "countryCode": "CA",
    "countryName": "Canada"
  },
  "listingDetails": {
    "typeCode": "1",
    "typeDescription": "Residential Sale",
    "listingGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "listingId": "2c6c2521-f58d-e911-8118-005056b96624",
    "office": {
      "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "companyId": "A1BCDE",
      "officeId": "001",
      "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
    },
    "primaryMLS": "A1235",
    "listedDate": "2022-01-15T18:25:43.511Z",
    "listPrice": 40.73061,
    "currencyCode": "USD",
    "currencyName": "US Dollar",
    "isShowAddressOnInternet": true,
    "isHideListPrice": true,
    "isForeclosure": true,
    "isShowOnInternet": true,
    "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
  },
  "listingOffice": {
    "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "companyId": "A1BCDE",
    "officeId": "001",
    "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
  },
  "agreementSideOffice": {
    "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "companyId": "A1BCDE",
    "officeId": "001",
    "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
  },
  "statusCode": "CL",
  "statusDescription": "Closed",
  "isRenewable": true,
  "isSubLeasable": true,
  "concessionAmount": 40.73061,
  "agreementOn": "2022-01-15T18:25:43.511Z",
  "commencementOn": "2022-01-15T18:25:43.511Z",
  "expiresOn": "2022-01-15T18:25:43.511Z",
  "suspendedOn": "2022-01-15T18:25:43.511Z",
  "terminatedOn": "2022-01-15T18:25:43.511Z",
  "closedOn": "2022-01-15T18:25:43.511Z",
  "extendedOn": "2022-01-15T18:25:43.511Z",
  "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
  "grossRent": 40.73061,
  "totalGrossCommission": 40.73061,
  "agreementSideGrossCommission": 40.73061,
}
```



```

"listSideGrossCommission": 40.73061,
"mlsNumber": "PL-45363",
"outsideBrokerCommission": 40.73061,
"adjustedGrossCommission": 40.73061,
"listSideSACommission": 40.73061,
"agreementSideSACommission": 40.73061,
"outsideBrokerOfficeName": "Coldwell Banker Real Estate Advisors",
"outsideBrokerBrand": "Coldwell Banker",
"outsideBroker": {
  "firstName": "Mary",
  "lastName": "Sparks",
  "email": "email@domain.com"
},
"listingSideAgents": [
  {
    "agent": {
      "companyStaffGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "company": {
        "companyGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "companyId": "2685",
        "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "commercialCompanyName": "string"
      },
      "primaryOffice": {
        "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "companyId": "A1BCDE",
        "officeId": "001",
        "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
      },
      "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "personGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "salutation": "Mr.",
      "firstName": "Mary",
      "middleName": "Mary",
      "lastName": "Sparks",
      "nameSuffix": "Mr.",
      "personProviderIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "primaryPhoneNumber": "1234567",
      "primaryEmailAddress": "email@domain.com",
      "primaryWebsite": "http://commercial.century21.com/"
    },
    "commissionPercentage": 40.73061,
    "isPrimary": true,
    "saCommission": 40.73061
  }
],
"agreementSideAgents": [
  {
    "agent": {
      "companyStaffGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "company": {
        "companyGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "companyId": "2685",
        "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "commercialCompanyName": "string"
      },
      "primaryOffice": {
        "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "companyId": "A1BCDE",
        "officeId": "001",
        "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
      },
      "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "personGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",

```



```

    "salutation": "Mr.",
    "firstName": "Mary",
    "middleName": "Mary",
    "lastName": "Sparks",
    "nameSuffix": "Mr.",
    "personProviderIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "primaryPhoneNumber": "1234567",
    "primaryEmailAddress": "email@domain.com",
    "primaryWebsite": "http://commercial.century21.com/"
  },
  "commissionPercentage": 40.73061,
  "isPrimary": true,
  "saCommission": 40.73061
}
],
"referrals": [
  {
    "salutation": "Mr.",
    "firstName": "Mary",
    "lastName": "Sparks",
    "entityName": "Office Export",
    "typeCode": "P",
    "typeDescription": "Residential Sale",
    "networkTypeCode": "CA",
    "networkTypeDescription": "Global Client Solutions",
    "referralBrandDescription": "Better Homes and Gardens",
    "sideCode": "L",
    "sideDescription": "Listing",
    "referralAmount": 40.73061,
    "address": {
      "addressLine1": "123, main street",
      "addressLine2": "New York",
      "addressLine3": "Southern District of New York",
      "city": "New York",
      "postalCode": "123445",
      "stateProvinceCode": "NJ",
      "stateProvinceName": "ABCD",
      "countryCode": "CA",
      "countryName": "Canada"
    },
    "phoneNumber": "1234567",
    "receivedFromAgent": {
      "companyStaffGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "company": {
        "companyGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "companyId": "2685",
        "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "commercialCompanyName": "string"
      },
      "primaryOffice": {
        "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "companyId": "A1BCDE",
        "officeId": "001",
        "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
      },
      "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "personGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "salutation": "Mr.",
      "firstName": "Mary",
      "middleName": "Mary",
      "lastName": "Sparks",
      "nameSuffix": "Mr.",
      "personProviderIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "primaryPhoneNumber": "1234567",

```



```

    "primaryEmailAddress": "email@domain.com",
    "primaryWebsite": "http://commercial.century21.com/"
  },
  "agentsInReferral": [
    {
      "referralAmount": 922337203685477.6,
      "companyStaffGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "company": {
        "companyGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "companyId": "2685",
        "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "commercialCompanyName": "string"
      },
      "primaryOffice": {
        "officeGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
        "companyId": "A1BCDE",
        "officeId": "001",
        "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014"
      },
      "providerIdentifier": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "personGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "salutation": "Mr.",
      "firstName": "Mary",
      "middleName": "Mary",
      "lastName": "Sparks",
      "nameSuffix": "Mr.",
      "personProviderIdentifier": "2c6c2521-f58d-e911-8118-005056b96624",
      "primaryPhoneNumber": "1234567",
      "primaryEmailAddress": "email@domain.com",
      "primaryWebsite": "http://commercial.century21.com/"
    }
  ]
},
"expenses": [
  {
    "typeCode": "OT",
    "typeDescription": "ExpenseType",
    "amount": 40.73061,
    "remarks": "remark about the open house",
    "sideCode": "L",
    "sideDescription": "Listing"
  }
],
"landlord": {
  "landlordTenants": [
    {
      "participantGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "personGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "businessEntityGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "phone": "1234567",
      "address": {
        "addressLine1": "123, main street",
        "addressLine2": "New York",
        "addressLine3": "Southern District of New York",
        "city": "New York",
        "postalCode": "123445",
        "stateProvinceCode": "NJ",
        "stateProvinceName": "ABCD",
        "countryCode": "CA",
        "countryName": "Canada"
      },
      "typeCode": "1",
      "typeDescription": "Residential Sale",
    }
  ]
}

```



```

    "salutation": "Mr.",
    "firstName": "Mary",
    "lastName": "Sparks",
    "businessEntityName": "George J. Bidlen",
    "emailAddress": "email@domain.com",
    "website": "http://commercial.century21.com/"
  }
],
"leadSourceCode": "9",
"leadSourceDescription": "Buyers",
"isAgentGenerated": true
},
"tenant": {
  "landlordTenants": [
    {
      "participantGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "personGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "businessEntityGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "phone": "1234567",
      "address": {
        "addressLine1": "123, main street",
        "addressLine2": "New York",
        "addressLine3": "Southern District of New York",
        "city": "New York",
        "postalCode": "123445",
        "stateProvinceCode": "NJ",
        "stateProvinceName": "ABCD",
        "countryCode": "CA",
        "countryName": "Canada"
      },
      "surveyDeliveryTypeCode": "P",
      "surveyDeliveryTypeDescription": "Email",
      "surveyLanguageCode": "en",
      "surveyLanguageName": "English",
      "preferredClubCode": "2, 5",
      "preferredClubDescription": "2 Year Plan ($25)",
      "typeCode": "1",
      "typeDescription": "Residential Sale",
      "salutation": "Mr.",
      "firstName": "Mary",
      "lastName": "Sparks",
      "businessEntityName": "George J. Bidlen",
      "emailAddress": "email@domain.com",
      "website": "http://commercial.century21.com/"
    }
  ],
  "leadSourceCode": "123",
  "leadSourceDescription": "7u0hrASvTBA0ZsRVoeE4rd09tsRQz2wOZ7gIva47jJb404HVyDK3UoBPd3Nz446uZXYH
KBQz0r3jP4e9",
  "isAgentGenerated": true
},
"commissionSchedule": {
  "isAdhocPayment": true,
  "frequencyCode": "4",
  "frequencyDescription": "Quarterly",
  "totalAmount": 922337203685477.6,
  "balanceAmount": 922337203685477.6,
  "commissionSchedule": [
    {
      "commissionScheduleGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
      "scheduledOn": "2022-01-15T18:25:43.511Z",
      "amountScheduled": 40.73061,
      "payments": [
        {

```





```

    "paymentGuid": "de305d54-75b4-431b-adb2-eb6b9e546014",
    "paymentId": "2c6c2521-f58d-e911-8118-005056b96624",
    "checkNumber": "324567544",
    "amountReceivedOn": "2022-01-15T18:25:43.511Z",
    "amountReceived": 40.73061,
    "providerIdentifier": "2c6c2521-f58d-e911-8118-005056b96624"
  }
}
]
},
"currencyCode": "USD",
"currencyName": "US Dollar",
"propertyTypeCode": "R",
"propertyTypeDescription": "Commercial",
"propertySubtypeCode": "1",
"propertySubtypeDescription": "Person",
"propertyStyleCode": "341",
"propertyStyleDescription": "1 Level Ranch, Apartment",
"propertyUseCode": "01",
"propertyUseDescription": "Owner Occupied",
"propertyName": "114 The High Road"
}

```

## 2.6 Reinstate Display Start and End dates for Listing Open Houses:

### 2.6.1 Dash Import Feeds:

dash API schema for **Listings** will be modified to support the optional attribute **“DisplayStartAndEndTime”** in *OpenHouses*, *VirtualOpenHouses* and *ListingEvents* collection of Listing entity.

- The below highlighted optional field will be reintroduced in *OpenHouses* and *VirtualOpenHouses* collections of the existing dash API Listing schema of the Batch API methods.
- Data provided in the request message during Listing Add and Update will be honored in dash.

```

<xs:element minOccurs="0" name="ListingParticip" nillable="true">...</xs:element>
<xs:element minOccurs="0" name="OpenHouses" nillable="true">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="OpenHouse" nillable="true">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="StartOn" type="xs:dateTime" />
            <xs:element minOccurs="0" name="EndOn" type="xs:dateTime" />
            <xs:element minOccurs="0" name="DisplayStartAndEndTime" type="xs:boolean" />
            <xs:element minOccurs="0" name="IsByAppointment" nillable="true" type="xs:boolean" />
            <xs:element minOccurs="0" maxOccurs="unbounded" name="Description" nillable="true">...</xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element minOccurs="0" name="VirtualOpenHouses" nillable="true">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="VirtualOpenHouse" nillable="true">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="StartOn" type="xs:dateTime" />
            <xs:element minOccurs="0" name="EndOn" type="xs:dateTime" />
            <xs:element minOccurs="0" name="DisplayStartAndEndTime" type="xs:boolean" />
            <xs:element minOccurs="0" name="IsByAppointment" nillable="true" type="xs:boolean" />
            <xs:element minOccurs="1" name="VirtualURL" type="xs:anyURI" />
            <xs:element minOccurs="0" maxOccurs="unbounded" name="Description" nillable="true">...</xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element minOccurs="0" name="MediaItems" nillable="true">...</xs:element>

```



- The below highlighted optional field will be newly introduce in *ListingEvents* collection of the existing dash API Listing schema of the Batch API methods.
- Dash will default the flag to “true” if the data is not provided during Listing Add and Update.

```

<xs:element minOccurs="0" name="Sellers" nillable="true">...</xs:element>
<xs:element minOccurs="0" name="ListingEvents" nillable="true">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="ListingEvent" nillable="true">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" name="StartOn" type="xs:dateTime" />
            <xs:element minOccurs="1" name="EndOn" type="xs:dateTime" />
            <xs:element minOccurs="0" name="IsByAppointment" type="xs:boolean" />
            <xs:element minOccurs="0" name="VirtualURL" type="xs:anyURI" />
            <xs:element minOccurs="1" name="EventTypeCode">...</xs:element>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="Description" nillable="true">...</xs:element>
            <xs:element minOccurs="0" name="ListingOpenHouseGUID" nillable="true" type="guid" />
            <xs:element minOccurs="0" name="DisplayStartAndEndTime" type="xs:boolean" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element minOccurs="0" name="SystemCustomAtt" nillable="true">...</xs:element>

```

## 2.6.2 Dash API:

dash API Listing Post, Put and Get operations will be modified to support the optional attribute “**isShowOnInternet**” in *openHouse*, *virtualOpenHouse* and *ListingEvents* collections.

### Real time API Get operations:

- CommercialLeaseListings\_Get
- CommercialSaleListings\_Get
- ResidentialRentalListings\_Get
- ResidentialSaleListings\_Get

### Real time API Post and Put operations:

- CommercialSaleListings\_Post
- CommercialSaleListings\_Put
- ResidentialRentalListings\_Post
- ResidentialRentalListings\_Put
- ResidentialSaleListings\_Post
- ResidentialSaleListings\_Put

- The below highlighted optional field will be reintroduced in *openHouse* and *virtualOpenHouse* collections of the existing dash API Listing methods.
- Data provided in the request message during Listing Add and Update will be honored in dash.

Swagger snippet for reference:

```

"openHouses": [
  {
    "startOn": "2022-01-15T18:25:43.511Z",
    "endOn": "2022-01-15T18:25:43.511Z",
    "isShowOnInternet": true,
    "isByAppointment": true,
    "remarks": "remark about the open house"
  }
],
"virtualOpenHouses": [
  {
    "startOn": "2022-01-15T18:25:43.511Z",
    "endOn": "2022-01-15T18:25:43.511Z",
    "isShowOnInternet": true,
    "isByAppointment": true,
    "remarks": "remark about the open house",
    "virtualURL": "http://commercial.century21.com/"
  }
],

```

- The below highlighted optional field will be newly introduce in *ListingEvents* collection of the existing dash API Listing Post, Put and Patch endpoints.
- Dash will default the flag to "true" if the data is not provided during Listing Add and Update.

```

}
],
"listingEvents": [
  {
    "startOn": "2022-01-15T18:25:43.511Z",
    "endOn": "2022-01-15T18:25:43.511Z",
    "isByAppointment": true,
    "isShowOnInternet": true,
    "remarks": "remark about the open house",
    "url": "http://commercial.century21.com/",
    "eventTypeCode": "string",
    "eventTypeDescription": "Listing Event description",
    "listingEventGuid": "19812955-9b65-48eb-b911-2c6430fdd324"
  }
],
"listingAgents": [

```

### 2.6.3 Data Sync API:

Listings operations will return *isShowOnInternet* flag in *openHouse*, *virtualOpenHouse* and *listingEvents* collections.

- GetListingById
- GetListingDelta

Swagger snippet for reference:

```
"openHouse": [
  {
    "startOn": "2022-01-15T18:25:43.511Z",
    "endOn": "2022-01-15T18:25:43.511Z",
    "isByAppointment": true,
    "remarks": "test remarks",
    "isShowOnInternet": true
  }
],
"virtualOpenHouse": [
  {
    "startOn": "2022-01-15T18:25:43.511Z",
    "endOn": "2022-01-15T18:25:43.511Z",
    "isByAppointment": true,
    "remarks": "test remarks",
    "virtualUrl": "https://www.facebook.com/Sothebys",
    "isShowOnInternet": true
  }
],
"listingEvents": [
  {
    "startOn": "2022-01-15T18:25:43.511Z",
    "endOn": "2022-01-15T18:25:43.511Z",
    "isByAppointment": true,
    "remarks": "test remarks",
    "url": "https://www.facebook.com/Sothebys",
    "eventType": "Open House (In Person)",
    "isShowOnInternet": true
  }
],
```

#### 2.6.4 Search API:

GetListingById – will return *isShowOnInternet* flag in *openHouse*, *virtualOpenHouse* and *listingEvents* collections.

Swagger snippet for reference:

```
"openHouse": [
  {
    "startOn": "2022-01-15T18:25:43.511Z",
    "endOn": "2022-01-15T18:25:43.511Z",
    "isByAppointment": true,
    "remarks": "test remarks",
    "isShowOnInternet": true
  }
],
"virtualOpenHouse": [
  {
    "startOn": "2022-01-15T18:25:43.511Z",
    "endOn": "2022-01-15T18:25:43.511Z",
    "isByAppointment": true,
    "remarks": "test remarks",
    "virtualUrl": "https://www.facebook.com/Sothebys",
    "isShowOnInternet": true
  }
],
"listingEvents": [
  {
    "startOn": "2022-01-15T18:25:43.511Z",
    "endOn": "2022-01-15T18:25:43.511Z",
    "isByAppointment": true,
```

```

    "remarks": "test remarks",
    "url": "https://www.facebook.com/Sothebys",
    "eventType": "Open House (In Person)",
    "isShowOnInternet": true
  }
],

```

### 2.6.5 Data Exports:

Data Exports will expose *Show Open House* flag in the listing feed.

## 2.7 Restrict API accepting staff positions by company:

### 2.7.1 Dash Import Feeds:

dash has been enhanced not allow the API to accept sales positions that are not viable positions for a given company.

dash Import Spec will restrict vendors from applying International-only Sales roles to Domestic Sales staff and vice-versa.

PS : This new feature is applicable to **RFG Common specification**.

### 2.7.2 Dash API:

dash has been enhanced not allow the API to accept sales positions that are not viable positions for a given company.

dash API will restrict vendors from applying International-only Sales roles to Domestic Sales staff and vice-versa.

**This validation is applicable in all the existing and new versions supported in dash API.**

#### Real time API Post and Put operations:

- a. CompanyStaff\_Post
- b. CompanyStaff\_Put

## 2.8 Listings and Transactions API Add and Update to accept status code:

### 2.8.1 Dash API:

Listing API endpoints have been enhanced to accept and resolve the status based on status code/ reportedAs code. Status description in the request message will not be honored during Listing Add and Updates.

Transaction API endpoints have been enhanced to accept and resolve the status based on status code. Status description in the request message will not be honored during Transaction Add and Updates.

Following new endpoints exposed in v3.0 will have support for status code field:

#### Real time API Post and Put operations:

- c. CommercialLeaseListings\_Post
- d. CommercialLeaseListings\_Put
- e. CommercialLeaseTransactions\_Post
- f. CommercialLeaseTransactions\_Put
- g. ResidentialRentalTransactions\_Post
- h. ResidentialRentalTransactions\_Put

Following existing endpoints will have support for status code and status description fields:

- i. CommercialSaleListings\_Post
- j. CommercialSaleListings\_Put
- k. ResidentialSaleListings\_Post
- l. ResidentialSaleListings\_Put
- m. ResidentialRentalListings\_Post
- n. ResidentialRentalListings\_Put
- o. SaleTransactions\_Post
- p. SaleTransactions\_Put
- q. OtherIncomeTransactions\_Post
- r. OtherIncomeTransactions\_Put

## 2.9 Agent MLS/ board is a required field:

### 2.9.1 Dash API:

CompanyStaff API endpoints has been enhanced to enforce the rule of mandating the board name when the Agent MLS Id is provided. Agent profile add/ update requests will be rejected, if the request includes Agent MLS Id without MLS Name information.

**This validation is applicable in the new version supported in dash API.**

Real time API Post and Put operations:

- a. CompanyStaff\_Post
- b. CompanyStaff\_Put

## 2.10 Dash Import Specifications:

Revised dash import specifications are available at:

[Commercial Listing Import Spec](#)

[Rental Listing Import Spec](#)

[Residential Listing Import Spec](#)