JCPS API documentation

September 4, 2015

#### History

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Version | Name | Description |
| 7/2/2015 | 0.1 | Daniel Waddell | Defined address search service and school finder service |
| 8/20/2015 | 0.2 | Daniel Waddell | Defined community service and bus finder |
| 9/4/2015 | 0.3 | Daniel Waddell | Refined the services based on testing results |
| 9/21/2015 | 0.4 | Daniel Waddell | Added OrgChart service redefined school service |
| 10/1/2015 | 0.5 | Daniel Waddell | Added support for match score and base addresses |
| 10/6/2015 | 0.6 | Daniel Waddell | Updated pluralization of endpoints and fixed grade level |
| 10/16/2015 | 0.7 | Daniel Waddell | Updated the org chart service |
| 10/22/2015 | 0.8 | Daniel Waddell | Expanded the School and Location Detail services |
| 11/4/2015 | 0.9 | Daniel Waddell | Added tree view for locations |
| 11/13/2015 | 1.0.1b | Daniel Waddell | Added School Year endpoints |
| 11/17/2015 | 1.0.2b | Daniel Waddell | Added Longitudes and Latitudes and Learning Places |
| 12/16/2015 | 1.0.3b | Daniel Waddell | Added Position Endpoint |
| 1/22/2016 | 1.1.0 | Daniel Waddell | Reworked Employee and Location endpoints |
| 1/28/2016 | 1.1.1 | Daniel Waddell | Modified Employees and Locations for better IDs |
| 1/29/2016 | 1.1.2 | Daniel Waddell | Added Employee Search endpoint |
| 2/16/2016 | 1.1.3 | Daniel Waddell | Fixed grade enum |
| 2/22/2016 | 1.1.4 | Daniel Waddell | Added extra fields to enrollments, schools, and programs |
| 3/8/2016 | 1.1.5 | Daniel Waddell | Added images and extra school information |
| 5/20/2016 | 1.1.6 | Daniel Waddell | Added bus stop information to school and position pdf |

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# Demographics Services

|  |  |
| --- | --- |
| Environment | Base URL |
| Production | https://apps.jefferson.kyschools.us/api/Demographics/v1 |
| Staging | https://appsqa.jefferson.kyschools.us/api/Demographics/v1 |

## School Year Service

### Get the current school year from our student information system

#### Endpoint

|  |  |  |
| --- | --- | --- |
| Method | URL | Type Returned |
| GET | SchoolYears | **SchoolYear[]** |

#### Data

Example: [GET] https://apps.jefferson.kyschools.us/api/Demographics/v1/SchoolYears?api\_key=abc123

|  |  |  |
| --- | --- | --- |
| Type | Parameter Name | Type |
| QUERYSTRING | api\_key | String |

* **api\_key:** The key assigned to your application, a valid key is required.

## Address Services

### Searching for an address by address string

#### Endpoint

|  |  |  |
| --- | --- | --- |
| Method | URL | Type Returned |
| GET | Address/[Address] | **Address[]** |

#### Data

Example: [GET] https://apps.jefferson.kyschools.us/api/Demographics/v1/Address/123%20Some%20Street?api\_key=abc123

|  |  |  |
| --- | --- | --- |
| Type | Parameter Name | Type |
| URL | [Address] | string |
| QUERYSTRING | api\_key | String |

* **Address**: The address that you are searching for. The city, state, and zip may be omitted.
* **api\_key:** The key assigned to your application, a valid key is required.

## Bus Finder

### Displaying a map and bus stops by address

The Bus Finder section of the API is currently not an API call. This endpoint is a page that should be loaded in an iframe. To see an example, you can go to the example page:

Busfinder/IFrameTest?api\_key=[your api key]

#### Endpoint

|  |  |  |
| --- | --- | --- |
| Method | URL | Type Returned |
| GET | BusFinder/ | WebPage |

#### Data

Example: [GET] https://apps.jefferson.kyschools.us/api/Demographics/v1/BusFinder?address=”123 Some St”&schoolNumber=090&api\_key=abc123

|  |  |  |
| --- | --- | --- |
| Type | Parameter Name | Type |
| QUERYSTRING | address | String |
| QUERYSTRING | schoolNumber | String |
| QUERYSTRING | api\_key | String |

* **api\_key:** The key assigned to your application, a valid key is required.
* **address:** The string representing the address in question. If not provided and empty map will return.

### Return Objects

##### SchoolYear

|  |  |
| --- | --- |
| Field Name | Type |
| Year | string |
| Current | bit |

##### Address

|  |  |
| --- | --- |
| Field Name | Type |
| LastReported | **ReportDate** |
| Score | Int (0-100) |
| BaseAddress | **BaseAddress** |
| AddressId | int |
| Number | string |
| HalfHouse | string |
| Direction | character |
| Street | string |
| Tag | string |
| Apartment | string |
| Zip | string |
| DisplayText | string |
| Longitude | string |
| Latitude | string |
| BoardDistrict | string |
| BoardMember | string |
| BoardMemberEmail | string |
| BoardMemberPhone | string |

##### BaseAddress

|  |  |
| --- | --- |
| Field Name | Type |
| AddressId | int |
| Number | string |
| HalfHouse | string |
| Direction | character |
| Street | string |
| Tag | string |
| Apartment | string |
| Zip | string |
| DisplayText | string |
| Longitude | string |
| Latitude | string |
| BoardDistrict | string |
| BoardMember | string |
| BoardMemberEmail | string |
| BoardMemberPhone | string |

# Schools Services

|  |  |
| --- | --- |
| Environment | Base URL |
| Production | https://apps.jefferson.kyschools.us/api/Schools/v1 |
| Staging | https://appsqa.jefferson.kyschools.us/api/Schools/v1 |

## School Year Service

### Get the current school year from our student information system

#### Endpoint

|  |  |  |
| --- | --- | --- |
| Method | URL | Type Returned |
| GET | SchoolYear | string |

#### Data

Example: [GET] https://apps.jefferson.kyschools.us/api/Schools/v1/SchoolYear?api\_key=abc123

|  |  |  |
| --- | --- | --- |
| Type | Parameter Name | Type |
| QUERYSTRING | api\_key | String |

* **api\_key:** The key assigned to your application, a valid key is required.

## School Finder Service

### Searching for schools that provide services to an address

#### Endpoint

|  |  |  |
| --- | --- | --- |
| Method | URL | Type Returned |
| GET | [EndYear]/ByAddressId/[AddressId] | AddressSchools |

#### Data

Example: [GET] https://apps.jefferson.kyschools.us/api/Schools/v1/2016/ByAddressId/123?api\_key=abc123

|  |  |  |
| --- | --- | --- |
| Type | Parameter Name | Type |
| URL | [EndYear] | four digit year |
| URL | [AddressId] | int |
| QUERYSTRING | api\_key | string |

* **EndYear:** The four digit year in which the school year ends. Different schools years may find different results for the same address.
* **AddressId:** The numeric id that corresponds to an address from the Demographics Address Search Service.
* **api\_key:** The key assigned to your application, a valid key is required.

## Schools Service

### Get a list of all schools

#### Endpoint

|  |  |  |
| --- | --- | --- |
| Method | URL | Type Returned |
| GET | [EndYear] (Optional) | School[] |

#### Data

Example: [GET] https://apps.jefferson.kyschools.us/api/Schools/v1/2016?api\_key=abc123

|  |  |  |
| --- | --- | --- |
| Type | Parameter Name | Type |
| URL | [EndYear] | four digit year |
| QUERYSTRING | api\_key | string |

* **EndYear:** The four digit year in which the school year ends. Different schools years may find different results for the same address.
* **api\_key:** The key assigned to your application, a valid key is required.

### Return Objects

##### AddressSchools

|  |  |
| --- | --- |
| Field Name | Type |
| AddressId | int |
| Schools | **School[]** |
| AvailableEnrollmentTypes | **EnrollmentType[]** |
| EndYear | string (four digit year) |

##### School

|  |  |
| --- | --- |
| Field | Type |
| Number | string |
| Name | string |
| Longitude | string |
| Latitude | string |
| Address1 | string |
| City | string |
| State | string |
| Zip | string |
| Levels | **LevelEnum**[] |
| ElementaryCluster | string |
| MiddleRegion  NOTE: This will always be 1 unless regions are created | string |
| HighRegion | string |
| Description | HtmlString |
| PhoneNumber | string |
| PrincipalEmployeeId | string |
| Principal | string |
| PrincipalEmail | string |
| BoardDistrict | string |
| BoardMember | string |
| BoardMemberEmail | string |
| BoardMemberPhone | string |
| AssistantSuperIntendentEmployeeId | string |
| AssistantSuperIntendent | string |
| AssistantSuperIntendentEmail | string |
| Special | bool |
| HidePrograms | bool |
| HasBusStops | bool |
| BusDepot | string |
| Enrollments  NOTE: When returned on an address search, this only contains the programs that a student is eligible for based on address. | **Enrollment** [] |

##### Enrollment

|  |  |
| --- | --- |
| Field | Type |
| EnrollmentType | **EnrollmentType** |
| Grades | **GradeEnum**[] |
| Optional | boolean |
| EndYear | int |
| Description | HtmlString |

##### EnrollmentType

|  |  |
| --- | --- |
| Field | Type |
| Name | string |
| Code | string |
| Level | **LevelEnum** |

##### LevelEnum

|  |
| --- |
| Valid Options |
| Elementary |
| Middle |
| High |

##### GradeEnum

|  |
| --- |
| Valid Options |
| K |
| First |
| Second |
| Third |
| Fourth |
| Fifth |
| Sixth |
| Seventh |
| Eighth |
| Ninth |
| Tenth |
| Eleventh |
| Twelfth |

# Community Services

#### Endpoint

|  |  |
| --- | --- |
| Environment | Base URL |
| Production | https://apps.jefferson.kyschools.us/api/Communities/v1 |
| Staging | https://appsqa.jefferson.kyschools.us/api/Communities/v1 |

## Learning Place Finder Services

### Getting all learning places

|  |  |  |
| --- | --- | --- |
| Method | URL | Type Returned |
| GET | LearningPlaces | **LearningPlace**[] |

#### Data

Example: [GET] https://apps.jefferson.kyschools.us/api/Communities/v1/LearningPlaces?api\_key=abc123

|  |  |  |
| --- | --- | --- |
| Type | Parameter Name | Type |
| QUERYSTRING | api\_key | String |

* **api\_key:** The key assigned to your application, a valid key is required.

### Return Objects

##### **LearningPlace**

|  |  |
| --- | --- |
| Field Name | Type |
| OrganizationName | string |
| ContactName | string |
| Longitude | string |
| Latitude | string |
| Address | string |
| City | string |
| State | string |
| Zip | string |
| PhoneNumber | string |
| OrganizationUrl | string |
| Information | string[] |
| IsStructuredProgram | boolean |
| IsEnrichmentSite | boolean |
| IsLearningPlace | boolean |
| StudentsServed | int |
| DaysPerYear | decimal |

# Personnel Services

#### Endpoint

|  |  |
| --- | --- |
| Environment | Base URL |
| Production | https://apps.jefferson.kyschools.us/api/Personnel/v1 |
| Staging | https://appsqa.jefferson.kyschools.us/api/Personnel/v1 |

## Personnel Services

### Get all employees

|  |  |  |
| --- | --- | --- |
| Method | URL | Type Returned |
| GET | Employees | **Employee** |

#### Data

Example: [GET] https://apps.jefferson.kyschools.us/api/Personnel/v1/Employees?api\_key=abc123

|  |  |  |
| --- | --- | --- |
| Type | Parameter Name | Type |
| QUERYSTRING | api\_key | String |

* **api\_key:** The key assigned to your application, a valid key is required.

### Get employee by Employee Number

|  |  |  |
| --- | --- | --- |
| Method | URL | Type Returned |
| GET | Employees/[EmployeeNumber] | **Employee** |

#### Data

Example: [GET] https://apps.jefferson.kyschools.us/api/Personnel/v1/Employees/123?api\_key=abc123

|  |  |  |
| --- | --- | --- |
| Type | Parameter Name | Type |
| URL | EmployeeNumber | string |
| QUERYSTRING | api\_key | string |

* **api\_key:** The key assigned to your application, a valid key is required.

### Get employee image

|  |  |  |
| --- | --- | --- |
| Method | URL | Type Returned |
| GET | Employees/[EmployeeNumber]/Image | Image file |

#### Data

Example: [GET] https://apps.jefferson.kyschools.us/api/Personnel/v1/Employees/123/Image?api\_key=abc123

### Search Employees

|  |  |  |
| --- | --- | --- |
| Method | URL | Type Returned |
| GET | Employees/Search/[SearchTerm] | **SearchResults** |

#### Data

Example: [GET] https://apps.jefferson.kyschools.us/api/Personnel/v1/Employees/Search/Enterprise?api\_key=abc123

|  |  |  |
| --- | --- | --- |
| Type | Parameter Name | Type |
| URL | SearchTerm | string |
| QUERYSTRING | api\_key | string |

* **api\_key:** The key assigned to your application, a valid key is required.

## Location Services

### Get Locations

|  |  |  |
| --- | --- | --- |
| Method | URL | Type Returned |
| GET | Locations | **Location** |

#### Data

Example: [GET] <https://apps.jefferson.kyschools.us/api/Personnel/v1/Locations?api_key=abc123>

|  |  |  |
| --- | --- | --- |
| Type | Parameter Name | Type |
| QUERYSTRING | api\_key | string |

* **api\_key:** The key assigned to your application, a valid key is required.

### Get employees by Work Location

|  |  |  |
| --- | --- | --- |
| Method | URL | Type Returned |
| GET | Locations/[WorkLocationCode] | **Location** |

#### Data

Example: [GET] https://apps.jefferson.kyschools.us/api/Personnel/v1/Locations/123?api\_key=abc123

|  |  |  |
| --- | --- | --- |
| Type | Parameter Name | Type |
| URL | WorkLocationCode | string |
| QUERYSTRING | api\_key | string |

* **api\_key:** The key assigned to your application, a valid key is required.

## Position Service

### Get printable position PDF

|  |  |  |
| --- | --- | --- |
| Method | URL | Type Returned |
| GET | Positions/[JobCode]/AsPdf | Pdf document |

#### Data

Example: [GET] https://apps.jefferson.kyschools.us/api/Personnel/v1/Positions/5/AsPdf?api\_key=abc123

|  |  |  |
| --- | --- | --- |
| Type | Parameter Name | Type |
| URL | JobCode | int |
| QUERYSTRING | api\_key | string |

* **api\_key:** The key assigned to your application, a valid key is required.

### Get position information

|  |  |  |
| --- | --- | --- |
| Method | URL | Type Returned |
| GET | Positions | **Position[]** |

#### Data

Example: [GET] https://apps.jefferson.kyschools.us/api/Personnel/v1/Positions?api\_key=abc123

|  |  |  |
| --- | --- | --- |
| Type | Parameter Name | Type |
| QUERYSTRING | api\_key | String |

* **api\_key:** The key assigned to your application, a valid key is required.

### Return Objects

##### **Location**

|  |  |
| --- | --- |
| Field Name | Type |
| DepartmentId | int |
| Code | string |
| Name | string |
| Phone | string |
| Fax | string |
| Address | **Address** |
| CostCenterHead | **Employee** |
| SubordinateLocations | **Location[]** |
| LocationType | **LocationTypeEnum** |

##### Employee

|  |  |
| --- | --- |
| Field Name | Type |
| PositionId | Int |
| EmployeeNumber | string |
| ReportsToPositionId | int |
| ReportsToEmployeeNumber | string |
| FirstName | string |
| LastName | string |
| IsCostCenterHead | bool |
| Title | string |
| Bio | HtmlString |
| Phone | string |
| Fax | string |
| Address | **Address** |
| Email | string |
| JobCode | string |
| PhysicalLocation | **PhysicalLocation** |
| SubordinateEmployees | **Employee[]** |

##### **SearchResults**

|  |  |
| --- | --- |
| Field Name | Type |
| Positions | **Position[]** |
| Employees | **Employee[]** |

##### **Position**

|  |  |
| --- | --- |
| Field Name | Type |
| Code | string |
| Title | string |
| Description | HtmlString |
| SalarySchedule | string |
| ReportsTo | string[] |
| HasVacancy | bool |

##### **PhysicalLocation**

|  |  |
| --- | --- |
| Field Name | Type |
| Name | string |
| Address | **Address** |

##### **Address**

|  |  |
| --- | --- |
| Field Name | Type |
| Address1 | string |
| Address2 | string |
| Floor | string |
| City | string |
| State | string |
| Zip | string |

##### LocationTypeEnum

|  |
| --- |
| Valid Options |
| School |
| Subunit |
| Other |