

ARLAS Exploration API

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Chapter 1. Overview

Explore the content of ARLAS collections

1.1. Version information

Version : V0.1.0

1.2. Contact information

Contact : Gisaia

Contact Email : contact@gisaia.com

1.3. License information

License : Apache 2.0

License URL : <https://www.apache.org/licenses/LICENSE-2.0.html>

Terms of service : null

1.4. URI scheme

BasePath : /arlas

Schemes : HTTP

1.5. Tags

- collections
- explore

Chapter 2. Resources

2.1. Collections

2.1.1. Get all collection references

```
GET /collections
```

Description

Get all collection references in ARLAS

Responses

HTTP Code	Description	Schema
200	Successful operation	< CollectionReference > array
500	Arlas Server Error.	ArlasError

Consumes

- `application/json; charset=utf-8`

Produces

- `application/json; charset=utf-8`

2.1.2. Get a collection reference

```
GET /collections/{collection}
```

Description

Get a collection reference in ARLAS

Parameters

Type	Name	Description	Schema
Path	collection <i>required</i>	collection	string

Responses

HTTP Code	Description	Schema
200	Successful operation	CollectionReference
404	Collection not found.	ArlasError
500	Arlas Server Error.	ArlasError

Consumes

- `application/json; charset=utf-8`

Produces

- `application/json; charset=utf-8`

2.1.3. Add a collection reference

```
PUT /collections/{collection}
```

Description

Add a collection reference in ARLAS

Parameters

Type	Name	Description	Schema
Path	collection <i>required</i>	collection	string
Body	collectionParameters <i>required</i>	collectionParams	CollectionReferenceParameters

Responses

HTTP Code	Description	Schema
200	Successful operation	CollectionReference
400	JSON parameter malformed.	ArlasError
500	Arlas Server Error.	ArlasError

Consumes

- `application/json; charset=utf-8`

Produces

- `application/json; charset=utf-8`

2.1.4. Delete a collection reference

```
DELETE /collections/{collection}
```

Description

Delete a collection reference in ARLAS

Parameters

Type	Name	Description	Schema
Path	collection <i>required</i>	collection	string

Responses

HTTP Code	Description	Schema
200	Successful operation	ArlasSuccess
404	Collection not found.	ArlasError
500	Arlas Server Error.	ArlasError

Consumes

- `application/json; charset=utf-8`

Produces

- `application/json; charset=utf-8`

2.2. Explore

2.2.1. List

```
GET /explore/_list
```

Description

List the collections configured in ARLAS.

Parameters

Type	Name	Description	Schema
Query	max-age-cache <i>optional</i>	max-age-cache	integer(int32)

Responses

HTTP Code	Description	Schema
200	Successful operation	No Content

Consumes

- `application/json; charset=utf-8`

Produces

- `application/json; charset=utf-8`

2.2.2. Suggest

```
GET /explore/{collections}/_suggest
```

Description

Suggest the the n (n=size) most relevant terms given the filters

Parameters

Type	Name	Description	Schema	Default
Path	collections <i>required</i>	collections, comma separated	string	
Query	after <i>optional</i>	Any element having its point in time reference after the given timestamp	integer(int64)	
Query	before <i>optional</i>	Any element having its point in time reference before the given timestamp	integer(int64)	

Type	Name	Description	Schema	Default														
Query	f optional	<p>* A triplet for filtering the result. Multiple filter can be provided. The order does not matter.</p> <p>* A triplet is composed of a field name, a comparison operator and a value.</p> <p>The possible values of the comparison operator are :</p> <p>----</p> <table><thead><tr><th>Operator</th><th>Description</th></tr></thead><tbody><tr><td> value type</td><td></td></tr><tr><td>:</td><td> {fieldName} equals {value} numeric or strings</td></tr><tr><td>:gte:</td><td> {fieldName} is greater than or equal to {value} numeric</td></tr><tr><td>:gt:</td><td> {fieldName} is greater than {value} numeric</td></tr><tr><td>:lte:</td><td> {fieldName} is less than or equal to {value} numeric</td></tr><tr><td>:lt:</td><td> {fieldName} is less than {value} numeric</td></tr></tbody></table> <p>----</p> <p>* The AND operator is applied between filters having different fieldNames.</p> <p>* The OR operator is applied on filters having the same fieldName.</p> <p>* If the fieldName starts with - then a must not filter is used</p> <p>* If the fieldName starts with ~ then a must not filter is used</p> <p>For more details, check https://gitlab.com/GISAIA.ARLAS/ARLAS-server/blob/master/doc/api/API-definition.md</p>	Operator	Description	value type		:	{fieldName} equals {value} numeric or strings	:gte:	{fieldName} is greater than or equal to {value} numeric	:gt:	{fieldName} is greater than {value} numeric	:lte:	{fieldName} is less than or equal to {value} numeric	:lt:	{fieldName} is less than {value} numeric	< string > array(multi)	
Operator	Description																	
value type																		
:	{fieldName} equals {value} numeric or strings																	
:gte:	{fieldName} is greater than or equal to {value} numeric																	
:gt:	{fieldName} is greater than {value} numeric																	
:lte:	{fieldName} is less than or equal to {value} numeric																	
:lt:	{fieldName} is less than {value} numeric																	

Type	Name	Description	Schema	Default
Query	field <i>optional</i>	Name of the field to be used for retrieving the most relevant terms	string	"_all"
Query	from <i>optional</i>	From index to start the search from. Defaults to 0.	integer(int32)	"0"
Query	gintersect <i>optional</i>	Any element having its geometry intersecting the given geometry (WKT)	< string > array(multi)	
Query	gwithin <i>optional</i>	Any element having its geometry contained within the given geometry (WKT)	< string > array(multi)	
Query	human <i>optional</i>	Human readable print	boolean	"false"
Query	max-age-cache <i>optional</i>	max-age-cache	integer(int32)	
Query	notgintersect <i>optional</i>	Any element having its geometry not intersecting the given geometry (WKT)	< string > array(multi)	
Query	notgwithin <i>optional</i>	Any element having its geometry outside the given geometry (WKT)	< string > array(multi)	
Query	notpwithin <i>optional</i>	Any element having its centroid outside the given geometry (WKT)	< string > array(multi)	
Query	pretty <i>optional</i>	Pretty print	boolean	"false"
Query	pwithin <i>optional</i>	Any element having its centroid contained within the given geometry (WKT)	< string > array(multi)	
Query	q <i>optional</i>	A full text search	string	
Query	size <i>optional</i>	The maximum number of entries or sub-entries to be returned. The default value is 10	integer(int32)	"10"

Responses

HTTP Code	Description	Schema
200	Successful operation	No Content

Consumes

- `application/json; charset=utf-8`

Produces

- `application/json; charset=utf-8`

2.2.3. Aggregate

```
GET /explore/{collection}/_aggregate
```

Description

Aggregate the elements in the collection(s), given the filters and the aggregation parameters

Parameters

Type	Name	Description	Schema	Default
Path	collection <i>required</i>	collection	string	
Query	after <i>optional</i>	Any element having its point in time reference after the given timestamp	string	

Type	Name	Description	Schema	Default
Query	agg required	<p>* The agg parameter should be given in the following formats:</p> <pre>{type}:{field}:interval-{interval}:format- {format}:collect_field- {collect_field}:collect_fct-{function}:order- {order}:on-{on}:size-{size}</pre> <p>Where :</p> <p>* {type}:{field} part is mandatory.</p> <p>* interval must be specified only when aggregation type is datehistogram, histogram and geohash.</p> <p>* format is optional for datehistogram, and must not be specified for the other types.</p> <p>* (collect_field,collect_fct) couple is optional for all aggregation types.</p> <p>* (order,on) couple is optional for all aggregation types.</p> <p>* size is optional for term and geohash, and must not be specified for the other types.</p> <p>* {type} possible values are :</p> <p>datehistogram, histogram, geohash and term.</p> <p>* {interval} possible values depends on {type}.</p> <p>If {type} = datehistogram, then {interval} = {size}(year,quarter,month,week,day,hour,minute,second).</p> <p>If {type} = histogram, then {interval} = {size}.</p> <p>If {type} = geohash, then {interval} = {size}. It's an integer between 1 and 12. Lower the length, greater is the surface of aggregation.</p> <p>If {type} = term, then interval-{interval} is not needed.</p> <p>* format-{format} is the date format for key</p>	< string > array(multi)	

Type	Name	Description	Schema	Default
Query	before <i>optional</i>	Any element having its point in time reference before the given timestamp	string	

Type	Name	Description	Schema	Default						
Query	f optional	<p>* A triplet for filtering the result. Multiple filter can be provided. The order does not matter.</p> <p>* A triplet is composed of a field name, a comparison operator and a value.</p> <p>The possible values of the comparison operator are :</p> <p>----</p> <table><tr><th>Operator </th><th>Description</th><th></th></tr><tr><td>value type</td><td></td><td></td></tr></table> <p>: {fieldName} equals {comma separated values}. OR operation is applied for the specified values numeric or strings</p> <p>:ne: {fieldName} must not equal {comma separated values }. AND operation is applied for the specified values numeric or strings</p> <p>:like: {fieldName} is like {value} numeric or strings</p> <p>:gte: {fieldName} is greater than or equal to {value} numeric</p> <p>:gt: {fieldName} is greater than {value} numeric</p> <p>:lte: {fieldName} is less than or equal to {value} numeric</p> <p>:lt: {fieldName} is less than {value} numeric</p> <p>:lt: {fieldName} is less than {value} numeric</p> <p>----</p> <p>* The AND operator is applied between filters having different fieldNames.</p> <p>* The OR operator is applied on filters having the same fieldName.</p> <p>* If the fieldName starts with - then a must not filter is used</p>	Operator	Description		value type			< string > array(multi)	
Operator	Description									
value type										

Type	Name	Description	Schema	Default
Query	gintersect <i>optional</i>	Any element having its geometry intersecting the given geometry (WKT)	< string > array(multi)	
Query	gwithin <i>optional</i>	Any element having its geometry contained within the given geometry (WKT)	< string > array(multi)	
Query	human <i>optional</i>	Human readable print	boolean	"false"
Query	max-age-cache <i>optional</i>	max-age-cache	integer(int32)	
Query	notgintersect <i>optional</i>	Any element having its geometry not intersecting the given geometry (WKT)	< string > array(multi)	
Query	notgwithin <i>optional</i>	Any element having its geometry outside the given geometry (WKT)	< string > array(multi)	
Query	notpwithin <i>optional</i>	Any element having its centroid outside the given geometry (WKT)	< string > array(multi)	
Query	pretty <i>optional</i>	Pretty print	boolean	"false"
Query	pwithin <i>optional</i>	Any element having its centroid contained within the given geometry (WKT)	< string > array(multi)	
Query	q <i>optional</i>	A full text search	string	

Responses

HTTP Code	Description	Schema
200	Successful operation	ArlasAggregation
400	Bad request.	ArlasError
500	Arlas Server Error.	ArlasError

Consumes

- `application/json; charset=utf-8`

Produces

- `application/json; charset=utf-8`

2.2.4. Count

```
POST /explore/{collection}/_count
```

Description

Count the number of elements found in the collection(s), given the filters

Parameters

Type	Name	Description	Schema
Path	collection <i>required</i>	collections	string
Body	body <i>optional</i>		Count

Responses

HTTP Code	Description	Schema
200	Successful operation	ArlasHits
400	Bad request.	ArlasError
500	Arlas Server Error.	ArlasError

Consumes

- `application/json; charset=utf-8`

Produces

- `application/json; charset=utf-8`

2.2.5. Count

```
GET /explore/{collection}/_count
```

Description

Count the number of elements found in the collection(s), given the filters

Parameters

Type	Name	Description	Schema	Default
Path	collection <i>required</i>	collections	string	
Query	after <i>optional</i>	Any element having its point in time reference after the given timestamp	string	
Query	before <i>optional</i>	Any element having its point in time reference before the given timestamp	string	

Type	Name	Description	Schema	Default						
Query	f optional	<p>* A triplet for filtering the result. Multiple filter can be provided. The order does not matter.</p> <p>* A triplet is composed of a field name, a comparison operator and a value.</p> <p>The possible values of the comparison operator are :</p> <p>----</p> <table><tr><th>Operator </th><th>Description</th><th></th></tr><tr><td>value type</td><td></td><td></td></tr></table> <p>: {fieldName} equals {comma separated values}. OR operation is applied for the specified values numeric or strings</p> <p>:ne: {fieldName} must not equal {comma separated values }. AND operation is applied for the specified values numeric or strings</p> <p>:like: {fieldName} is like {value} numeric or strings</p> <p>:gte: {fieldName} is greater than or equal to {value} numeric</p> <p>:gt: {fieldName} is greater than {value} numeric</p> <p>:lte: {fieldName} is less than or equal to {value} numeric</p> <p>:lt: {fieldName} is less than {value} numeric</p> <p>:lt: {fieldName} is less than {value} numeric</p> <p>----</p> <p>* The AND operator is applied between filters having different fieldNames.</p> <p>* The OR operator is applied on filters having the same fieldName.</p> <p>* If the fieldName starts with - then a must not filter is used</p>	Operator	Description		value type			< string > array(multi)	
Operator	Description									
value type										

Type	Name	Description	Schema	Default
Query	gintersect <i>optional</i>	Any element having its geometry intersecting the given geometry (WKT)	< string > array(multi)	
Query	gwithin <i>optional</i>	Any element having its geometry contained within the given geometry (WKT)	< string > array(multi)	
Query	human <i>optional</i>	Human readable print	boolean	"false"
Query	max-age-cache <i>optional</i>	max-age-cache	integer(int32)	
Query	notgintersect <i>optional</i>	Any element having its geometry not intersecting the given geometry (WKT)	< string > array(multi)	
Query	notgwithin <i>optional</i>	Any element having its geometry outside the given geometry (WKT)	< string > array(multi)	
Query	notpwithin <i>optional</i>	Any element having its centroid outside the given geometry (WKT)	< string > array(multi)	
Query	pretty <i>optional</i>	Pretty print	boolean	"false"
Query	pwithin <i>optional</i>	Any element having its centroid contained within the given geometry (WKT)	< string > array(multi)	
Query	q <i>optional</i>	A full text search	string	

Responses

HTTP Code	Description	Schema
200	Successful operation	ArlasHits
400	Bad request.	ArlasError
500	Arlas Server Error.	ArlasError

Consumes

- `application/json; charset=utf-8`

Produces

- `application/json; charset=utf-8`

2.2.6. Describe

```
GET /explore/{collection}/_describe
```

Description

Describe the structure and the content of the given collection.

Parameters

Type	Name	Description	Schema	Default
Path	collection <i>required</i>	collection	string	
Query	human <i>optional</i>	Human readable print	boolean	"false"
Query	max-age-cache <i>optional</i>	max-age-cache	integer(int32)	
Query	pretty <i>optional</i>	Pretty print	boolean	"false"

Responses

HTTP Code	Description	Schema
200	Successful operation	No Content

Consumes

- `application/json; charset=utf-8`

Produces

- `application/json; charset=utf-8`

2.2.7. Aggregate

```
GET /explore/{collection}/_geoaggregate
```

Description

Aggregate the elements in the collection(s), given the filters and the aggregation parameters

Parameters

Type	Name	Description	Schema	Default
Path	collection <i>required</i>	collection	string	
Query	after <i>optional</i>	Any element having its point in time reference after the given timestamp	string	

Type	Name	Description	Schema	Default
Query	agg required	<p>* The agg parameter should be given in the following formats:</p> <pre>{type}:{field}:interval-{interval}:format- {format}:collect_field- {collect_field}:collect_fct-{function}:order- {order}:on-{on}:size-{size}</pre> <p>Where :</p> <p>* {type}:{field} part is mandatory.</p> <p>* interval must be specified only when aggregation type is datehistogram, histogram and geohash.</p> <p>* format is optional for datehistogram, and must not be specified for the other types.</p> <p>* (collect_field,collect_fct) couple is optional for all aggregation types.</p> <p>* (order,on) couple is optional for all aggregation types.</p> <p>* size is optional for term and geohash, and must not be specified for the other types.</p> <p>* {type} possible values are :</p> <p>geohash, datehistogram, histogram and term. geohash must be the main aggregation.</p> <p>* {interval} possible values depends on {type}.</p> <p>If {type} = datehistogram, then {interval} = {size}(year,quarter,month,week,day,hour,minute,second).</p> <p>If {type} = histogram, then {interval} = {size}.</p> <p>If {type} = geohash, then {interval} = {size}. It's an integer between 1 and 12. Lower the length, greater is the surface of aggregation.</p> <p>If {type} = term, then interval-{interval} is not needed.</p>	< string > array(multi)	

Type	Name	Description	Schema	Default
Query	before <i>optional</i>	Any element having its point in time reference before the given timestamp	string	

Type	Name	Description	Schema	Default						
Query	f optional	<p>* A triplet for filtering the result. Multiple filter can be provided. The order does not matter.</p> <p>* A triplet is composed of a field name, a comparison operator and a value.</p> <p>The possible values of the comparison operator are :</p> <p>----</p> <table><tr><th>Operator </th><th>Description</th><th> </th></tr><tr><td>value type</td><td></td><td></td></tr></table> <p>: {fieldName} equals {comma separated values}. OR operation is applied for the specified values numeric or strings</p> <p>:ne: {fieldName} must not equal {comma separated values }. AND operation is applied for the specified values numeric or strings</p> <p>:like: {fieldName} is like {value} numeric or strings</p> <p>:gte: {fieldName} is greater than or equal to {value} numeric</p> <p>:gt: {fieldName} is greater than {value} numeric</p> <p>:lte: {fieldName} is less than or equal to {value} numeric</p> <p>:lt: {fieldName} is less than {value} numeric</p> <p>:lt: {fieldName} is less than {value} numeric</p> <p>----</p> <p>* The AND operator is applied between filters having different fieldNames.</p> <p>* The OR operator is applied on filters having the same fieldName.</p> <p>* If the fieldName starts with - then a must not filter is used</p>	Operator	Description		value type			< string > array(multi)	
Operator	Description									
value type										

Type	Name	Description	Schema	Default
Query	gintersect <i>optional</i>	Any element having its geometry intersecting the given geometry (WKT)	< string > array(multi)	
Query	gwithin <i>optional</i>	Any element having its geometry contained within the given geometry (WKT)	< string > array(multi)	
Query	human <i>optional</i>	Human readable print	boolean	"false"
Query	max-age-cache <i>optional</i>	max-age-cache	integer(int32)	
Query	notgintersect <i>optional</i>	Any element having its geometry not intersecting the given geometry (WKT)	< string > array(multi)	
Query	notgwithin <i>optional</i>	Any element having its geometry outside the given geometry (WKT)	< string > array(multi)	
Query	notpwithin <i>optional</i>	Any element having its centroid outside the given geometry (WKT)	< string > array(multi)	
Query	pretty <i>optional</i>	Pretty print	boolean	"false"
Query	pwithin <i>optional</i>	Any element having its centroid contained within the given geometry (WKT)	< string > array(multi)	
Query	q <i>optional</i>	A full text search	string	

Responses

HTTP Code	Description	Schema
200	Successful operation	FeatureCollection
400	Bad request.	ArlasError
500	Arlas Server Error.	ArlasError

Consumes

- `application/json; charset=utf-8`

Produces

- `application/json; charset=utf-8`

2.2.8. Geosearch

POST /explore/{collection}/_geosearch

Description

Search and return the elements found in the collection(s) as features, given the filters

Parameters

Type	Name	Description	Schema
Path	collection <i>required</i>	collection	string
Body	body <i>optional</i>		Search

Responses

HTTP Code	Description	Schema
200	Successful operation	No Content

Consumes

- `application/json; charset=utf-8`

Produces

- `application/json; charset=utf-8`

2.2.9. Geosearch

GET /explore/{collection}/_geosearch

Description

Search and return the elements found in the collection(s) as features, given the filters

Parameters

Type	Name	Description	Schema	Default
Path	collection <i>required</i>	collection	string	

Type	Name	Description	Schema	Default
Query	after <i>optional</i>	Any element having its point in time reference after the given timestamp	string	
Query	before <i>optional</i>	Any element having its point in time reference before the given timestamp	string	
Query	exclude <i>optional</i>	List the name patterns of the field to be excluded in the result. Seperate patterns with a comma.	< string > array(multi)	

Type	Name	Description	Schema	Default						
Query	f optional	<p>* A triplet for filtering the result. Multiple filter can be provided. The order does not matter.</p> <p>* A triplet is composed of a field name, a comparison operator and a value.</p> <p>The possible values of the comparison operator are :</p> <p>----</p> <table><tr><th>Operator </th><th>Description</th><th></th></tr><tr><td>value type</td><td></td><td></td></tr></table> <p>: {fieldName} equals {comma separated values}. OR operation is applied for the specified values numeric or strings</p> <p>:ne: {fieldName} must not equal {comma separated values }. AND operation is applied for the specified values numeric or strings</p> <p>:like: {fieldName} is like {value} numeric or strings</p> <p>:gte: {fieldName} is greater than or equal to {value} numeric</p> <p>:gt: {fieldName} is greater than {value} numeric</p> <p>:lte: {fieldName} is less than or equal to {value} numeric</p> <p>:lt: {fieldName} is less than {value} numeric</p> <p>:lt: {fieldName} is less than {value} numeric</p> <p>----</p> <p>* The AND operator is applied between filters having different fieldNames.</p> <p>* The OR operator is applied on filters having the same fieldName.</p> <p>* If the fieldName starts with - then a must not filter is used</p>	Operator	Description		value type			< string > array(multi)	
Operator	Description									
value type										

Type	Name	Description	Schema	Default
Query	from <i>optional</i>	From index to start the search from. Defaults to 0.	string	"0"
Query	gintersect <i>optional</i>	Any element having its geometry intersecting the given geometry (WKT)	< string > array(multi)	
Query	gwithin <i>optional</i>	Any element having its geometry contained within the given geometry (WKT)	< string > array(multi)	
Query	human <i>optional</i>	Human readable print	boolean	"false"
Query	include <i>optional</i>	List the name patterns of the field to be included in the result. Seperate patterns with a comma.	< string > array(multi)	
Query	max-age-cache <i>optional</i>	max-age-cache	integer(int32)	
Query	notgintersect <i>optional</i>	Any element having its geometry not intersecting the given geometry (WKT)	< string > array(multi)	
Query	notgwithin <i>optional</i>	Any element having its geometry outside the given geometry (WKT)	< string > array(multi)	
Query	notpwithin <i>optional</i>	Any element having its centroid outside the given geometry (WKT)	< string > array(multi)	
Query	pretty <i>optional</i>	Pretty print	boolean	"false"
Query	pwithin <i>optional</i>	Any element having its centroid contained within the given geometry (WKT)	< string > array(multi)	
Query	q <i>optional</i>	A full text search	string	
Query	size <i>optional</i>	The maximum number of entries or sub-entries to be returned. The default value is 10	string	"10"

Type	Name	Description	Schema	Default
Query	sort <i>optional</i>	<p>* Sort the result on the given fields ascending or descending.</p> <p>* Fields can be provided several times by separating them with a comma. The order matters.</p> <p>* For a descending sort, precede the field with '-'. The sort will be ascending otherwise.</p> <p>* For aggregation, provide the agg keyword as the {field}.</p>	< string > array(multi)	

Responses

HTTP Code	Description	Schema
200	Successful operation	No Content

Consumes

- **application/json; charset=utf-8**

Produces

- **application/json; charset=utf-8**

2.2.10. Search

POST /explore/{collection}/_search

Description

Search and return the elements found in the collection, given the filters

Parameters

Type	Name	Description	Schema
Path	collection <i>required</i>	collection	string
Body	body <i>optional</i>		Search

Responses

HTTP Code	Description	Schema
200	Successful operation	ArlasHits

Consumes

- `application/json; charset=utf-8`

Produces

- `application/json; charset=utf-8`

2.2.11. Search

```
GET /explore/{collection}/_search
```

Description

Search and return the elements found in the collection, given the filters

Parameters

Type	Name	Description	Schema	Default
Path	collection <i>required</i>	collection	string	
Query	after <i>optional</i>	Any element having its point in time reference after the given timestamp	string	
Query	before <i>optional</i>	Any element having its point in time reference before the given timestamp	string	
Query	exclude <i>optional</i>	List the name patterns of the field to be excluded in the result. Seperate patterns with a comma.	< string > array(multi)	

Type	Name	Description	Schema	Default						
Query	f <i>optional</i>	<p>* A triplet for filtering the result. Multiple filter can be provided. The order does not matter.</p> <p>* A triplet is composed of a field name, a comparison operator and a value.</p> <p>The possible values of the comparison operator are :</p> <p>----</p> <table><tr><th>Operator </th><th>Description</th><th></th></tr><tr><td>value type</td><td></td><td></td></tr></table> <p>: {fieldName} equals {comma separated values}. OR operation is applied for the specified values numeric or strings</p> <p>:ne: {fieldName} must not equal {comma separated values }. AND operation is applied for the specified values numeric or strings</p> <p>:like: {fieldName} is like {value} numeric or strings</p> <p>:gte: {fieldName} is greater than or equal to {value} numeric</p> <p>:gt: {fieldName} is greater than {value} numeric</p> <p>:lte: {fieldName} is less than or equal to {value} numeric</p> <p>:lt: {fieldName} is less than {value} numeric</p> <p>:lt: {fieldName} is less than {value} numeric</p> <p>----</p> <p>* The AND operator is applied between filters having different fieldNames.</p> <p>* The OR operator is applied on filters having the same fieldName.</p> <p>* If the fieldName starts with - then a must not filter is used</p>	Operator	Description		value type			< string > array(multi)	
Operator	Description									
value type										

Type	Name	Description	Schema	Default
Query	from <i>optional</i>	From index to start the search from. Defaults to 0.	string	"0"
Query	gintersect <i>optional</i>	Any element having its geometry intersecting the given geometry (WKT)	< string > array(multi)	
Query	gwithin <i>optional</i>	Any element having its geometry contained within the given geometry (WKT)	< string > array(multi)	
Query	human <i>optional</i>	Human readable print	boolean	"false"
Query	include <i>optional</i>	List the name patterns of the field to be included in the result. Seperate patterns with a comma.	< string > array(multi)	
Query	max-age-cache <i>optional</i>	max-age-cache	integer(int32)	
Query	notgintersect <i>optional</i>	Any element having its geometry not intersecting the given geometry (WKT)	< string > array(multi)	
Query	notgwithin <i>optional</i>	Any element having its geometry outside the given geometry (WKT)	< string > array(multi)	
Query	notpwithin <i>optional</i>	Any element having its centroid outside the given geometry (WKT)	< string > array(multi)	
Query	pretty <i>optional</i>	Pretty print	boolean	"false"
Query	pwithin <i>optional</i>	Any element having its centroid contained within the given geometry (WKT)	< string > array(multi)	
Query	q <i>optional</i>	A full text search	string	
Query	size <i>optional</i>	The maximum number of entries or sub-entries to be returned. The default value is 10	string	"10"

Type	Name	Description	Schema	Default
Query	sort <i>optional</i>	<p>* Sort the result on the given fields ascending or descending.</p> <p>* Fields can be provided several times by separating them with a comma. The order matters.</p> <p>* For a descending sort, precede the field with '-'. The sort will be ascending otherwise.</p> <p>* For aggregation, provide the agg keyword as the {field}.</p>	string	

Responses

HTTP Code	Description	Schema
200	Successful operation	ArlasHits

Consumes

- **application/json; charset=utf-8**

Produces

- **application/json; charset=utf-8**

Chapter 3. Definitions

3.1. ArlasAggregation

Aggregation result

Name	Description	Schema
arlastime <i>optional</i>	All the aggregation execution time. It includes query time.	integer(int64)
count <i>optional</i>	Count	integer(int64)
elements <i>optional</i>	Sub-aggregations	< ArlasAggregation > array
key <i>optional</i>	Key	object
key_as_string <i>optional</i>	Key as string	object
metric aggregation <i>optional</i>	Metric aggregation	ArlasMetric
name <i>optional</i>	Name	string
querytime <i>optional</i>	Query execution time	integer(int64)
totalnb <i>optional</i>	Total number of hits matching the query	integer(int64)

3.2. ArlasError

Name	Schema
error <i>optional</i>	string
message <i>optional</i>	string
status <i>optional</i>	integer(int32)

3.3. ArlasHit

A hit retrieved from an ARLAS Collection

Name	Description	Schema
data <i>optional</i>	The hit's data	object
md <i>optional</i>	The hit's metadata	ArlasMD

3.4. ArlasHits

A collection of hits retrieved from ARLAS Collections

Name	Description	Schema
hits <i>optional</i>	ARLAS hits	< ArlasHit > array
nbhits <i>optional</i>	Number of hits contained in hits	integer(int64)
totalnb <i>optional</i>	Total number of hits matching the query	integer(int64)

3.5. ArlasMD

Metadata of the ARLAS hit

Name	Description	Schema
centroid <i>optional</i>	The centroid of the hit	Point
geometry <i>optional</i>	The geometry of the hit	object
id <i>optional</i>	The unique identifier of the hit	string
timestamp <i>optional</i>	The timestamp of the hit	integer(int64)

3.6. ArlasMetric

Metric agg

Name	Description	Schema
field <i>optional</i>	field of the metric aggregation	string
type <i>optional</i>	Name of the metric aggregation	string
value <i>optional</i>	Value of the metric aggregation	number(double)

3.7. ArlasSuccess

Name	Schema
message <i>optional</i>	string
status <i>optional</i>	integer(int32)

3.8. CollectionReference

The reference to ARLAS collection that embed elasticsearch index description.

Name	Description	Schema
collection_name <i>optional</i>	The collection name	string
params <i>optional</i>	The collection parameters	CollectionReferenceParameters

3.9. CollectionReferenceParameters

The description of the elasticsearch index and the way ARLAS API will serve it.

Name	Description	Schema
centroid_path <i>optional</i>	Path to the collection's centroid Example : <i>"centroid"</i>	string
geometry_path <i>optional</i>	Path to the collection's geometry Example : <i>"geometry"</i>	string
id_path <i>optional</i>	Path to the collection's id Example : <i>"id"</i>	string

Name	Description	Schema
index_name <i>optional</i>	The collection's index name	string
timestamp_path <i>optional</i>	Path to the collection's timestamp Example : "timestamp"	string
type_name <i>optional</i>	The collection's type name	string

3.10. Count

Name	Schema
filter <i>optional</i>	Filter
form <i>optional</i>	Form

3.11. Crs

Name	Schema
properties <i>optional</i>	< string, object > map
type <i>optional</i>	enum (name, link)

3.12. Feature

Name	Schema
bbox <i>optional</i>	< number(double) > array
crs <i>optional</i>	Crs
geometry <i>optional</i>	GeoJsonObject
id <i>optional</i>	string

Name	Schema
properties <i>optional</i>	< string, object > map

3.13. FeatureCollection

Name	Schema
bbox <i>optional</i>	< number(double) > array
crs <i>optional</i>	Crs
features <i>optional</i>	< Feature > array

3.14. Filter

Name	Schema
after <i>optional</i>	integer(int64)
before <i>optional</i>	integer(int64)
f <i>optional</i>	< string > array
gintersect <i>optional</i>	string
gwithin <i>optional</i>	string
notgintersect <i>optional</i>	string
notgwithin <i>optional</i>	string
notpwithin <i>optional</i>	string
pwithin <i>optional</i>	string
q <i>optional</i>	string

3.15. Form

Name	Schema
human <i>optional</i>	boolean
pretty <i>optional</i>	boolean

3.16. GeoJsonObject

Name	Schema
bbox <i>optional</i>	< number(double) > array
crs <i>optional</i>	Crs

3.17. GeometryCollection

Polymorphism : Inheritance

Discriminator : type

Name	Schema
bbox <i>optional</i>	< number(double) > array
crs <i>optional</i>	Crs
geometries <i>optional</i>	< GeoJsonObject > array

3.18. LineString

Polymorphism : Inheritance

Discriminator : type

Name	Schema
bbox <i>optional</i>	< number(double) > array

Name	Schema
coordinates <i>optional</i>	< LngLatAlt > array
crs <i>optional</i>	Crs

3.19. LngLatAlt

Name	Schema
additionalElements <i>optional</i>	< number(double) > array
altitude <i>optional</i>	number(double)
latitude <i>optional</i>	number(double)
longitude <i>optional</i>	number(double)

3.20. MultiLineString

Polymorphism : Inheritance

Discriminator : type

Name	Schema
bbox <i>optional</i>	< number(double) > array
coordinates <i>optional</i>	< < LngLatAlt > array > array
crs <i>optional</i>	Crs

3.21. MultiPoint

Polymorphism : Inheritance

Discriminator : type

Name	Schema
bbox <i>optional</i>	< number(double) > array
coordinates <i>optional</i>	< LngLatAlt > array
crs <i>optional</i>	Crs

3.22. MultiPolygon

Polymorphism : Inheritance

Discriminator : type

Name	Schema
bbox <i>optional</i>	< number(double) > array
coordinates <i>optional</i>	< < < LngLatAlt > array > array > array
crs <i>optional</i>	Crs

3.23. Point

Name	Schema
bbox <i>optional</i>	< number(double) > array
coordinates <i>optional</i>	LngLatAlt
crs <i>optional</i>	Crs

3.24. Polygon

Polymorphism : Inheritance

Discriminator : type

Name	Schema
bbox <i>optional</i>	< number(double) > array
coordinates <i>optional</i>	< < LngLatAlt > array > array
crs <i>optional</i>	Crs

3.25. Search

Name	Schema
filter <i>optional</i>	Filter
form <i>optional</i>	Form
size <i>optional</i>	Size
sort <i>optional</i>	Sort

3.26. Size

Name	Schema
from <i>optional</i>	integer(int32)
size <i>optional</i>	integer(int32)

3.27. Sort

Name	Schema
sort <i>optional</i>	string