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# Consuming EMIR Service Endpoint Records (SER)

Every previously published Service Endpoint Records (SER) can be queried from the EMIR databases if user is allowed. The queries can be:

- customized by setting up filter parameters
- paginated
- result format can be selected (JSON or XML)

To access the query method of the services interface HTTP **GET** or **POST** method have to be used. The services interface can be addressed usually on the `http[s]://host.domain:port/services` URL.

All of the stored attributes can be used as a filter. The list of allowed values can be found on the EMIR Service Endpoint Record Description wiki page.

The filters has to sent as **GET** parameter key-value pairs or as **POST** where more complex query expression can be defined.

The result format is defined by the *Accept* HTTP header. If non of this headers is present, then JSON will be sent.

## Example usage:

```
curl -v -H "Accept:application/xml" -X GET http://host.domain:port/services?Service_Endpoint_ID=<
```

```
curl -v -H "Accept:application/json" -X GET http://host.domain:port/services?Service_Endpoint_ID=
```

EMIR uses **pagination** to iterate through the endpoints listing, in response to the query. The pagination is by default turned-on, this is mainly due to avoid the memory overflow errors on the server side or/and delays while rendering large number of endpoints on the client's browser. Hence if the endpoints listing (yield from the query) exceeds the maximum threshold - set to 100, the total number of results would be divided into a number of pages. They can be accessed while passing a reference which is being provided in the current result page. Following example shows such traversal from one result page to the other.

## Query sent to the EMIR server

```
GET http://emir-url/services
```

## Response from the server (XML)

```
<ns2:QueryResult xmlns="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1" xmlns:ns2="http://www.
...
</ns2:QueryResult>
```

## Response from the server (JSON)

```
[
  { ... },
  { "ref": "50d090b12033e6f03f3f1376" }
]
```

## Now accessing the next result page:

```
GET http://emir-url/services?ref=50d090b12033e6f03f3f1376 (same as being provided in the above r
```

NOTE: The reference will not be shown if the query result size is within the bounds of the threshold value.

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In case if the client does not require auto-pagination, all the results can be viewed by adding the *pageSize* http parameter to the url.

```
GET http://emir-url/services?pageSize=10000
```

More examples:

### Example usage:

```
curl -v -H "Accept:application/json" -X GET http://host.domain:port/services?Service_Type=<MyServ
```

### Example usage in case of client-side authentication with curl:

```
curl -v -H "Accept:application/json" -X GET https://host.domain:port/services -k --cert /path/cli
```

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