

draft-ietf-regext-rdap-sorting-and-paging Review

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- New parameters:
 - count: allows the user to obtain the total number of results
 - sort: allows the user to sort the results
 - limit & offset: allow the user to scroll the results
- New properties:
 - sorting_metadata: includes information about both current and available sort criteria
 - paging_metadata: includes the total number of results, and paging information
- RDAP conformance
 - sorting_level_0
 - paging_level_0
- Alternative to offset
 - **cursor**: an opaque string representing a logical pointer to the first result of the next page





Registroit sorting_metadata: sample

```
"rdapConformance": [ "rdap level 0", "sorting level 0" ],
. . .
"sorting metadata": {
   "currentSort": "ldhName",
   "availableSorts": [
     "property": "registrationDate",
     "jsonPath": "$.domainSearchResults[*].events[?(@.eventAction==\"registration\")].eventDate",
     "default": false,
     "links": [
       {
         "value": "https://example.com/rdap/domains?name=*nr.com&sort=ldhName",
         "rel": "alternate",
         "href": "https://example.com/rdap/domains?name=*nr.com&sort=registrationDate",
         "title": "Result Ascending Sort Link",
         "type": "application/rdap+json"
       },
   },
   . . .
},
"domainSearchResults": [
  . . .
```

- REQUIRED: property
- OPTIONAL: currentSort, availableSorts (at least one must be present)
- RECOMMENDED: jsonPath, default, links





Registro paging_metadata: samples

- OPTIONAL: pageCount, totalCount (at least one must be present)
- RECOMMENDED: offset, nextOffset, links







- According to the online poll, the WG agrees on the solution to provide sorting, paging and counting capabilities in RDAP
- Which default sorting properties should be defined?
- Should both sorting and paging information be provided in metadata elements? If yes:
 - Does the WG agree about the proposed structures?
 - Should the metadata elements be included in a more general metadata section together with other contents (e.g. rate limits, information about server, request and response, other metadata)?
- Which pagination method should be defined?
 - Only one?
 - Both?







IETF 104 RegExt Session, Prague, March 25, 2019

draft-ietf-regext-rdap-partial-response Review

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- The client declares a name identifying a server pre-defined set of data fields instead of declaring explicitly the data fields to get back
- New parameter:
 - fieldSet: is a string identifying a server pre-defined set of fields
- Required field sets:
 - id: it contains only "the key field (i.e. "handle" and "ldhName")
 - brief: it contains those elements identified in RFC7485 as "mostly supported" (i.e. by more than one third of contacted Whois services)
 - full: it contains all the information the server can provide for a particular object

Note:

- The "objectClassName" field is implicitly included in each field set
- Field sets should be provided according to users access levels
- Server MAY add any service information (e.g. notices) and implement additional field sets
- Servers SHOULD also define a "default" field set
- New properties:
 - **subsetting_metadata**: includes information about both current and available field sets
- RDAP conformance
 - subsetting_level_0







subsetting_metadata: sample

```
"rdapConformance": [ "rdap level 0", "subsetting level 0" ],
"subsetting metadata": {
   "currentFieldSet": "brief",
   "availableFieldSets": [
     "name": "id",
     "description": "Contains only the key field",
     "default": false,
     "links": [
       {
         "value": "https://example.com/rdap/domains?name=*nr.com&fieldSet=brief",
         "rel": "alternate",
         "href": "https://example.com/rdap/domains?name=*nr.com&fieldSet=id",
         "title": "Result Subset Link",
         "type": "application/rdap+json"
   },
},
"domainSearchResults": [
```

- REQUIRED: name
- OPTIONAL: currentFieldSet, availableFieldSets (at least one must be present)
- RECOMMENDED: description, default, links







- According to the online poll, the WG agrees on the solution to provide a partial response in RDAP
- Which field sets should be defined by the draft?
 - Which response elements should they contain?
 - Which ones should be required?
 - Since relationships exist in RDAP, should we define variants according to whether associated objects are returned or not?
 - Variants for brief: brief (i.e. brief-null), brief-id, brief-brief
 - Variants for full: full (i.e. full-null), full-id, full-brief, full-full
- Should the available field sets be provided in a metadata element? If yes:
 - Does the WG agree about the proposed structure?
 - Should the metadata element be included in a more general metadata section together with other contents (e.g. rate limits, information about server, request and response, other metadata)?







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draft-ietf-regext-rdap-reverse-search Review

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- New paths:
 - domains?entityHandle=<reverse search pattern>
 - domains?entityFn=<reverse search pattern>
 - domains?entityEmail=<reverse search pattern>
 - domains?entityAddr=<reverse search pattern>
- <reverse search pattern> is a JSON object including two members:
 - value: it represents the search pattern to be matched by the corresponding entity property. It can be:
 - for the first three paths, a string
 - for the fourth path, a JSON object, in turn, containing the information described in Section 2.4 of RFC 5733
 - role: it is a string whose possible values are those detailed in Section 10.2.4 of RFC 7483
 - Note: value is REQUIRED, role is OPTIONAL







entityHandle={"value":"CID-40*", "role":"registrant"}

```
entityFn={"value":"Bobby*", "role":"registrant"}
```

entityEmail={"value":"loffredo@example.com","role":"registrant"}

```
entityAddr={"value":
{"cc":"CA","city":"Sydney"},"role":"registrant"}
```







- According to the online poll, the WG agrees on the solution to provide a reverse search capability in RDAP
- Which default reverse searches should be defined?
- Should we opt for a unique path, which allows the reverse search on any entity detail?
 - entityDetail={"name":"fn","value":"Bobby*","role":"registrant"}
 - entityDetail={"name":"phone","value":"+39.0503153497","role":"regi strant"}
- Is the proposed JSON notation considered suitable?
 - Should we model a reverse search without using JSON?
 - Should it be evaluated given the possibility to submit complex queries in the next future?
 - Es. search all domains where tech's email matches X AND registrant's address matches Y







- Is Privacy Considerations section considered comprehensive or does it need further amendments?
 - In my opinion: YES!







- Due to replacement of jCard
 - Should a name referencing a contact detail (e.g. city, cc) be compliant with the related member's name of a new JSON contact object?
- Affected drafts
 - draft-ietf-regext-rdap-sorting-and-paging (sorting properties)
 - draft-ietf-regext-rdap-reverse-search
- (members of the JSON contact)







Thanks for your attention and feedbacks!



