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

Mario Loffredo
IIT-CNR/.it Registry
mario.loffredo@iit.cnr.it
Selected changes since IETF105

04:
- Replaced "ldhName" with "name" in the "Sorting Properties Declaration" section:
  - "name" is mapped onto ldhName/unicodeName;
  - the unicodeName value MUST be taken while sorting; when unicodeName is missing, the value of ldhName MUST be considered instead.
- Clarified the sorting logic with respect to the JSON value types and the sorting policy for multivalued fields:
  - servers MUST implement the sorting according to the JSON value type of the RDAP field the sorting property refers to: JSON strings MUST be sorted lexicographically and JSON numbers MUST be sorted numerically.
  - the jCard "sort-as" parameter MUST be ignored for the purpose of the sorting capability;
  - when more than one value is returned, sorting will be applied to the preferred value identified by the parameter pref="1". If a preference information is missing, sorting will be applied to the first value.

05:
- Clarified the sorting logic on IP addresses:
  - IP addresses MUST be sorted based on their numeric conversion.
- Clarified the mapping between the sorting properties and the RDAP fields:
  - each RDAP provider MAY define other sorting properties than those shown in this document as well as it MAY map those sorting properties onto different locations (e.g. due to a different implementation of the contact representation).

06:
- Renamed "pageCount" to "pageSize" and added "pageNumber" to the "paging_metadata" element:
  - even if "pageSize" and "pageNumber" are redundant for clients because they can be derived programmatically, they can be helpful for an end user who interacts with the server through a web browser.
To evaluate for next versions

- How to implement pagination when "links" can’t be used?
  - The request is sent via HTTP POST
    - e.g. POST seems to be more suitable than GET for delivering a complex query
  - The link to the next result set page can’t be provided
  - The "paging_metadata" element doesn’t support this case currently

- Solution:
  - An optional property named "nextCursor" could be added to "paging_metadata" as alternative to "links"