

List Pagination for YANG-driven protocols

draft-ietf-netconf-list-pagination-03
draft-ietf-netconf-list-pagination-nc-03
draft-ietf-netconf-list-pagination-rc-03

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List Pagination Suite Overview

- List Pagination for YANG-driven Protocols (LP)
 - draft-ietf-netconf-list-pagination-03
 - Standard mechanism to control filtering, and retrieval of entries of list or leaf-list.
- NETCONF Extensions to support List Pagination (LP-NC)
 - draft-ietf-netconf-list-pagination-nc-03
- RESTCONF Extensions to support List Pagination (LP-RC)
 - draft-ietf-netconf-list-pagination-03

Current status

- Cursor pagination
 - Clarified support and polished text
- Locale-aware collation
 - Clarified support, added text, YANG, and examples
- Editorial changes
- Snapshot support for “config false” moved
 - draft-awwlh-netconf-list-pagination-snapshot-00

Cursor based pagination

- MUST be supported for “config true” lists
- SHOULD be supported for “config false” lists
 - Set “cursor-supported” leaf in “per-node-capabilities” node in “ietf-system-capabilities” model
- Offset a list resource by key
- No conformance for leaf-lists
 - There are no keys
 - Uniquely index duplicate elements would become similar to offset pagination:
[1, 1, 2, 3, 5, 8]

Locale-aware collation

- Locales are assumed to be UTF-8
 - MAY be supplied and returned as both “sv_SE” and “sv_SE.UTF-8”
- Renamed “sort-locale-collate” query parameter to “locale”
- Locales not known by the server returns “locale-unavailable” instead of “locale-unknown”

Locale-aware collation

```
GET /restconf/data/example-social:member/member?locale=sv_SE
```

```
{ "example-social:member":  
  [ {"member-id": "alice", ...},  
    {"member-id": "bob", ...},  
    ... ],  
  "@example-social:member":  
    {  
      "ietf-list-pagination:locale": "sv_SE"  
    }  
}
```

Locale-aware collation cont'd

GET /restconf/data/example-social:member/member?locale=sv_SE.UTF-8

```
{"example-social:member":  
  [{"member-id": "alice", ...},  
   {"member-id": "bob", ...},  
   ...],  
  "@example-social:member":  
    {  
      "ietf-list-pagination:locale": "sv_SE.UTF-8"  
    }  
}
```

Editorial changes

- Added YANG Security considerations section
- Expanded example-social data set and “locale” query parameter examples

Next steps

- WGLC

Thank you!

Questions?