

# List Pagination for YANG-driven protocols

draft-ietf-netconf-list-pagination-05  
draft-ietf-netconf-list-pagination-nc-05  
draft-ietf-netconf-list-pagination-rc-05

## IETF 121 NETCONF WG 2024-11-08

On behalf of NETCONF List Pagination Authors  
Kent Watsen <kent+ietf@watsen.net>, Qin Wu <bill.wu@huawei.com>,  
Per Andersson <per.ietf@ionio.se>, Olof Hagsand <olof@hagsand.se>,  
Hongwei Li <flycoolman@gmail.com>

# List Pagination Suite Overview

- List Pagination for YANG-driven Protocols (LP)
  - draft-ietf-netconf-list-pagination-05
  - 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-05
- RESTCONF Extensions to support List Pagination (LP-RC)
  - draft-ietf-netconf-list-pagination-05

# Current status

- All previous outstanding issues done
  - limit=0
  - Text overhaul
  - Locale for ordered-by lists
  - Validated examples
- Document review

# limit=0

- Defined in text
- Should quickly return the empty result set
- Good for validating query validity

# Text overhaul

- Updated locale text
- Fixed and clarified examples

# Locale for ordered-by lists

- “ordered-by user” does not report locale
  - User has defined an arbitrary order
- “ordered-by system” may report locale
  - If system lexically stored items according to a valid locale

# Validate examples

- Validated RESTCONF yang-data+xml-list
- Validated list-pagination-nc example

# Document review

- Changes to be made
  - One parameters grouping instead of one grouping per parameter
  - if-feature for “sort-by”, “locale”, and “direction”
  - Add query parameter capabilities to NETCONF



# Document review

- Will not change
  - Change “cursor” from base64 to anydata
  - Replace “remaining” attribute with RPC augment
  - Remove conformance for leaf-lists

# Next steps

- Update the document after review comments
- WGLC
  - Since both NETCONF co-chairs are co-authors, they need to recuse themselves
  - The AD will need to close the WGLC

Thank you!

Questions?

# Implementation status

- Olof Hagsand made an almost full implementation
  - Clixon open-source project
  - NETCONF and RESTCONF
  - Missing “cursor”, “locale”, and “sublist-limit”
- Other implementations are more spotty
  - Not both NETCONF and RESTCONF
  - Not all functionality