

NETCONF Error List and Error Identities Registries

draft-pamtv-netconf-error-registries-00

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Intro

- NETCONF errors and identities have no canonical source
- Create IANA registries for NETCONF errors and identities
- Possible to create IANA YANG modules of registry contents

Status quo

- There exists no canonical list or registry for NETCONF errors
- Listed in RFCs 4741 and 6241
- New errors and error identities are listed in the RFC where they are defined and introduced
 - E.g. RFCs 5277, 8639, 8640, 8641,
draft-ietf-netconf-list-pagination,
draft-ietf-netconf-trace-ctx-extension,
draft-wilton-netconf-yang-push-2

Problems

- No easy way to get all existing errors
- Often needs to be hardcoded
 - At least some need parsing of several sources
 - Sources (RFCs) are not machine friendly
- Need to import YANG data models just for error identities

Solution

- Create IANA registries
 - NETCONF Error List Registry
 - NETCONF Error Identities
- Create initial YANG modules for the above registries

Advantages

- Canonical source for all NETCONF protocol errors and error identities
- Easy and well defined way to define YANG modules of registries
 - Machine readable source for NETCONF errors and error identities
 - No need to import full protocol modules

Next steps

- Should the WG work on this?
- Adopt the document
- Gather feedback and define a solution

Thank you!

Questions?

RESTCONF

- Analogous registry to NETCONF Error List for RESTCONF?
- Are RESTCONF errors as distributedly defined?
- Could RESTCONF just reuse the YANG models defined for NETCONF?