NETCONF private candidates

James Cumming & Robert Wills

draft-jgc-netconf-privcand-02
Overview

• The Private Candidates feature allows each session to have its own candidate configuration datastore (NMDA and non-NMDA capable servers)

• A session can stage changes to its Private Candidate and <get>, <validate>, <compare> and <commit> those changes

• The document describes:
  • Interaction of Private Candidates with NETCONF and RESTCONF
  • How an implementation should identify and resolve conflicts between clients
Overview

Running configuration

Private candidate 1

Create PC1
edit-config
commit
edit-config
update
edit-config
commit
update

Private candidate 2

edit-config
update
edit-config
discard-changes

Destroyed on session close

Destroyed on session close
Changes in draft -02

• Describes interaction of Private Candidates with RESTCONF
  • Private candidate works analogously to shared candidate

• Describes semantics of <compare> operation with Private Candidates
  • Introduces an optional <reference-point> parameter

• Adds a mechanism for the implementation to signal its supported and default conflict resolution modes
  • Via parameters on the :private-candidate capability
Compare

- Create PC1
  - edit-config
  - commit
- Private candidate 1
  - private-candidate with private-candidate
  - reference-point: creation-point
  - edit-config
  - commit
  - update
  - edit-config
  - commit
  - update
  - discard-changes
- Private candidate 2
  - private-candidate with running
- Running configuration
  - destroyed on session close

Creation point
Update point
Now
Destroyed on session close
Adoption

• We would like the Working Group to adopt this document

• Specific focus areas:
  • Conflict detection and resolution: encourage wider WG participation to ensure this is right
  • How do we deal with multiple <hello> messages (current RFCs not specific and impacts non-NMDA solution)