NETCONF and RESTCONF Private Candidate Datastores

draft-ietf-netconf-privcand

James Cumming, Robert Wills
IETF 124 Montreal
03 November 2025

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What does it do?

- This document provides a mechanism to extend the Network Configuration Protocol (NETCONF) and RESTCONF protocol to support multiple clients making configuration changes simultaneously and ensuring that they commit only those changes that they defined.

- This document addresses two specific aspects
  - The interaction with a private candidate over the NETCONF and RESTCONF protocols
  - The methods to identify and resolve conflicts between clients.

How does it work?

- Client selects that it wants to use private candidate mode based on a client capability
- A private candidate is referenced by the “candidate” datastore
- Changes occur in a separate candidate branched from the running

```
                        update commit
       +--------------------+---+------> private candidate 1
      /                     ^    \
     /  edit-config        /      v
+---+--------+--------+---+-------+----> running configuration
 edit-config  \       ^
               \     /
                +---+------------------> private candidate 2
                 commit
```

How does it work?

- Private candidates are bound to sessions
- Multiple candidates can be created in parallel
- Defines what a collision is
- Details how to resolve collisions

Status

- -07 was published prior to IETF123
- Editorial feedback received regarding the introduction structure
- -08 version missed the cutoff for IETF124 but has been published and addresses this feedback

Next Steps

- The draft is ready to progress to the IESG