

NMDA drafts Intro

Introduction to:

YANG library -bis (draft-nmdsd-netconf-rfc7895bis-01)

NETCONF NMDA extensions (draft-dsd-netconf-00)

RESTCONF NMDA extensions (draft-dsd-netconf-restconf-nmda-00)

Rob Wilton (Cisco), on behalf of NMDA authors

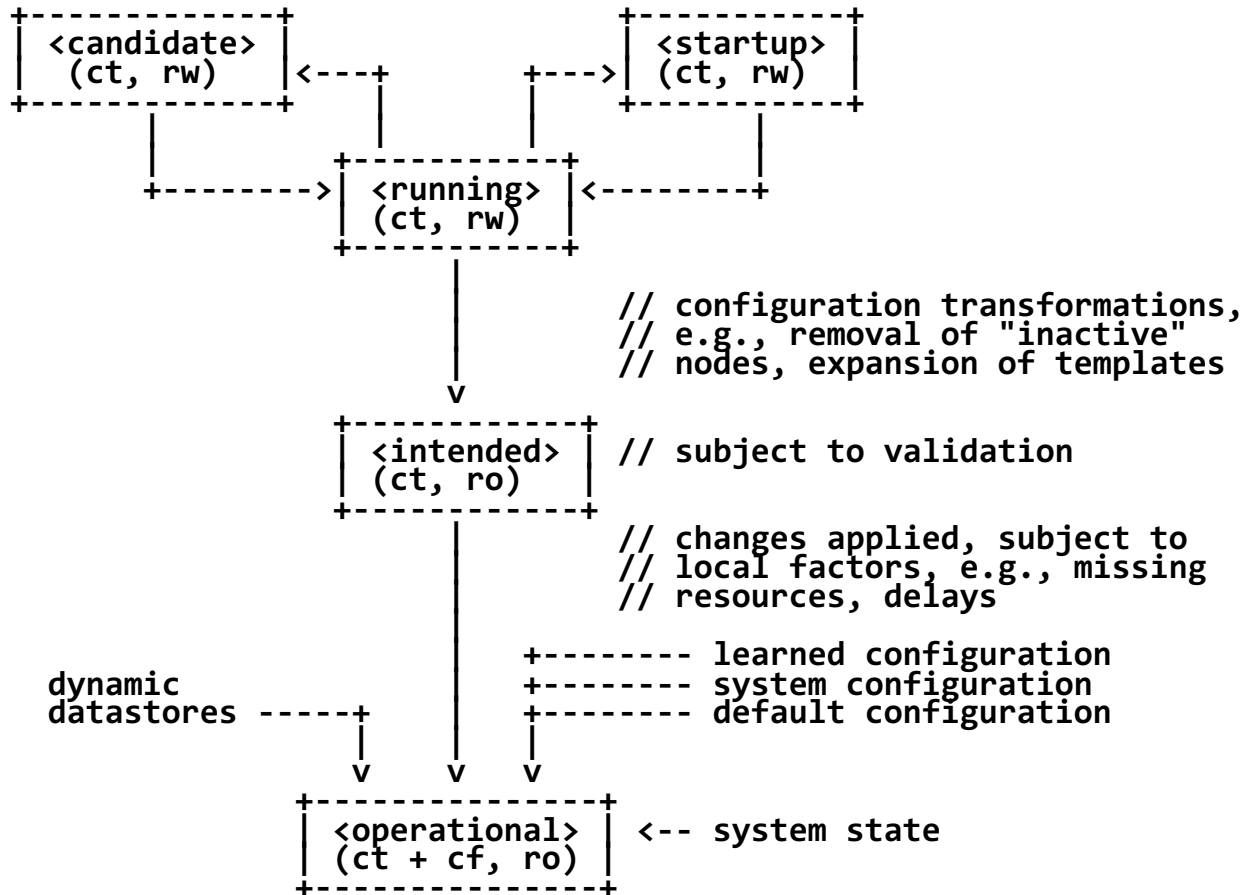
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1 slide reminder of NMDA:

- Operator requirement for devices to clearly differentiate between:
 - What it is being **asked to do** – i.e. the **intended configuration**
 - What it is **actually doing** – i.e. **operational state, including the applied configuration.**
- Different solutions to this problem has been evaluated by IETF.
- The IETF solution defines a **new datastore for operational state**:
 - This has implications on the structure of YANG models to be simplified and optimized for use with NMDA.
 - Also replaces the existing ‘broken’ NETCONF GET operation.
 - NETCONF/RESTCONF additions to support the operational datastore.

Canonical datastores picture:



NMDA impact on NETCONF WG

- The NETCONF protocol needs extensions to support NMDA
- The RESTCONF protocol needs extensions to support NMDA
- The scope of protocol extension drafts is limited to just adding the necessary support for NMDA.
- YANG library (common to both protocols) is also updated to provide information about which modules are available in which datastores.
- Details to follow in Kent and Phil's presentations ...