Interface configuration

draft-ietf-netmod-interfaces-cfg-02
draft-ietf-netmod-iana-if-type-01
draft-ietf-netmod-ip-cfg-01

IETF 82
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Changes from last IETF

- draft-ietf-netmod-interfaces-cfg-02 and draft-ietf-netmod-iana-if-type-01 are in WGLC (ends Nov 21)
- Mostly clarifying and editorial comments so far.
- One technical issue. In the “interface” list:

  // currently: (also used in nacm and routing)
  leaf enabled {
    type boolean;
    default "true";
  }

  // proposed:
  leaf disabled {
    type empty;
  }

- Prefer consistency.
draft-ietf-netmod-ip-cfg
Open Issues 1(4)

- Should we add parameters for configuring the default source address to use for packets from an interface, and for packets from an interface for a specific subnet?
- Seems that different vendors use different (overlapping) names for these concepts, and not all vendors support both concepts (?)
- So maybe it is best to stay out of this and leave it to vendors to figure it out?
- OTOH, since it is currently unclear, maybe this is a good reason to try to standardize?
Open Issues 2(4)

- Make “ipv6” a presence container? If present, ipv6 would be enabled on the interface, and the address autoconfiguration process would run. Do we need an explicit parameter to turn off autoconfiguration?

    // For example:

    leaf advertisement-max-interval {
        if-feature ipv6-router;
        type uint32 {
            range 4..1800;
        }
        units seconds;
    }
RFC 4862 (Stateless Address Autoconfiguration) also defines one such conceptual variable, REQUIRED for all nodes. Should we add this?

A node MUST allow the following autoconfiguration-related variable to be configured by system management for each multicast-capable interface:

```
DupAddrDetectTransmits
```
Open Issues 4(4)

- RFC 4861 (Neighbor Discovery) defines a set of conceptual variables that MUST be configurable by a router, used in outgoing Router Advertisement messages. These variables are also writable in IP-MIB. Should we add them?

```plaintext
// For example:

leaf advertisement-max-interval {
    if-feature ipv6-router;
    type uint32 {
        range 4..1800;
    }
    units seconds;
}
```