



Generic Capabilities model

Shall we do it?

Multiple groups want to model system capabilities in a similar way

- Other parties would like to define server capabilities similar to my notification-capabilities in YANG models.
- > Planned on augment publisher-subscription-capabilities container with new properties.
- > It is the right thing to do, because
 - -it has a nice structure (system/datastore/data-node levels with similar capabilities on each).
 - -It would be good to different capabilities in the same or similar structure
- > It is wrong because
 - -publisher-subscription-capabilities container is not a generic name
 - -capabilities other are speaking about are not strictly subscription related
 - E.g., Counter types
- > Ways forward
- 1. Do nothing, deal with capability presenting YANG modes on a case by case basis
- 2. Enforce a similar structure on different capabilities, but keep them in their own data model (copypaste the containment structure of the model)
- 3. Modify my model
 - -Rename the top level container system-capabilities
 - -Add a container subscription-capabilities to the grouping subscription-capabilities to contain all subscription related capabilities
 - -Allow others to augment the model with similar groupings for other capabilities

>

```
ro publisher-subscription-capabilities
    +--ro (update-period)?
       +--:(minimum-update-period)
       +--ro minimum-update-period?
                                              uint32
      +--:(supported-update-period)
          +--ro supported-update-period*
                                              uint32
    +--ro max-objects-per-update?
                                              uint32
    +--ro minimum-dampening-period?
                                              uint32 {yp:on-change}?
    +--ro on-change-supported?
                                              notification-support {vp:on-change}?
    +--ro periodic-notifications-supported?
                                             notification-support
    +--ro supported-excluded-change-type* union {yp:on-change}?
    +--ro datastore-capabilities* [datastore]
       +--ro datastore
                                       -> /yanglib:yang-library/datastore/name
       +--ro per-node-capabilities* [node-selector]
          +--uses grouping with same capabilities as above
```

```
ro system-capabilities
 +--uses grouping for notification capabilities
 +--uses grouping other capabilities
 +--ro datastore-capabilities* [datastore]
       +--ro datastore -> /yanglib:yang-library/datastore/name
       +--ro per-node-capabilities* [node-selector]
           +--uses grouping for notification capabilities
           +--uses grouping other capabilities
grouping xx-capabilities {
  container xx-capabilities {
   leaf capability1 {..}
```