Generic Capabilities model

Shall we do it?

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draft-ietf-netconf-notification-capabilities
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 models on a case by case basis
  2. Enforce a similar structure on different capabilities, but keep them in their own data model (copy-paste 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 {yp: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 {..}
    ...
  }
}