SMI Translation to YANG
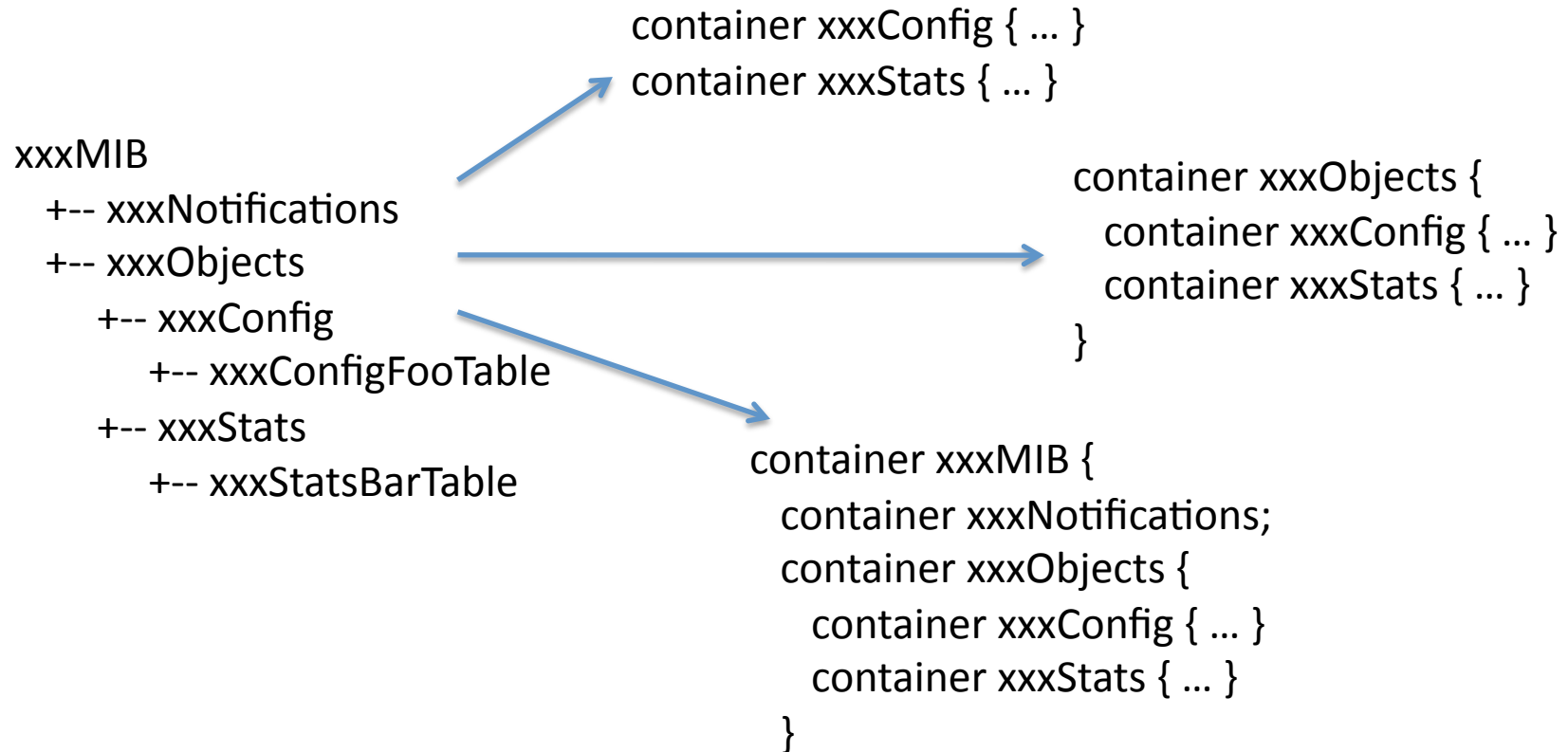
Jürgen Schönwälder

Jacobs University

Document Status

- Posted an updated version of the expired ID: <draft-schoenw-netmod-smi-yang-01.txt>

- Changes from 00 to 01:
  - Translation is config false; top-level container are marked as config false.
  - Revised the overall document structure, added a YANG module for the definition of YANG extensions (smiv2:oid, smiv2:display-hint, smiv2:max-access, smiv2:defval), moved the IF-MIB example into an appendix.
  - Alignment with RFC 6020 and RFC 6021.

Question 1:

- Do we flatten or do we keep the nested MIB structure?

```
container xxxConfig { … }
container xxxStats { … }
```

```
xxxMIB
  +-- xxxNotifications
  +-- xxxObjects
     +-- xxxConfig
        +-- xxxConfigFooTable
     +-- xxxStats
        +-- xxxStatsBarTable
```

```
container xxxObjects {
   container xxxConfig { … }
   container xxxStats { … }
}
```

```
container xxxMIB {
   container xxxNotifications;
   container xxxObjects {
      container xxxConfig { … }
      container xxxStats { … }
   }
}
```

Question 2:

- Can IETF modules import from translated namespaces? Does the translated namespace have to exist as a published module or is the availability of the translation algorithm sufficient?

Final Question?

- Make this a WG document?

- Anyone implementing as well and interested to help with the document?

- Charter:

  Dec 2010 - Submit first working group draft of SMIv2
          translation to YANG
  Apr 2011 - Submit SMIv2 to YANG translation to the IESG
          (proposed standard)