CoRECONF < YANG-CBOR < Getting those .sid Files Out There

IETF 127 Hackathon: Built tools for:

1. Designated Expert Proposing SID-Range allocations to IANA
2. Designated Expert Releasing Authoritative .sid files to IANA

(About 1/2 done now; slight disruption by email outages.)

Workflow for Each Batch of YANG Files:

- Postpone the files that don't parse
- Find the YANG modules that have **SID-guiding** (type-1) controllers [RFC9595]
  - Handle these asynchronously, in separate batches
- With possible help from **SID-aware** (type-2) module controllers:
  Decide which YANG modules need **2-byte SIDs** (1'000..59'999)
  (4-byte is default, 100'000..299'999), **record** decisions
- Create SID range allocation requests ➔ **IANA**
- Build the SID file based on range allocation ➔ **IANA**

Work Items

- (Once:) Build clean patch for pyang 2.7.1 that creates conforming .sid files
- Initial batch: IANA's **rfcmod** collection (219 modules, range allocation 43700)
- coordinated via `yang-sid-logistics` mailing list, with help from `yang-tooling`

Ongoing work on draft-ietf-core-comi

Work done by Alexander Pelov
Reporting: **Carsten Bormann**, Universität Bremen TZI

CoRE WG, 2026-11-18

https://datatracker.ietf.org/doc/draft-ietf-core-comi-22
shows a way forward for most issues; needs reviews

Issues that needed discussion

Appendix D

- mandatory-to-implement security
  ➔ Applications of COMI differ too much for just one security profile
- SIDs in URI path segments / **data-node discovery** (#26)
  (➔ confusion about **datastore resource** vs. resources for individual **data nodes** within those?)
- Content-Format on **POST to the datastore** (#29)
  ➔ Yes: the content-format needs to be sent.
  ➔ Do we actually need POST (create) and DELETE for full datastores?

Method	Resource	Media-Type (request)	Media-Type (response)
FETCH	datastore	yang-identifiers+cbor-seq	yang-instances+cbor-seq
iPATCH	datastore	yang-instances+cbor-seq	N/A
GET	**datastore** (?)	N/A	**yang-data+cbor; id=sid**
PUT	**datastore** (?)	**yang-data+cbor; id=sid**	N/A
POST	**datastore** (?)	**yang-data+cbor; id=sid**	N/A
DELETE	**datastore** (?)	N/A	N/A
GET	event stream	N/A	yang-instances+cbor-seq
FETCH	event stream	yang-identifiers+cbor-seq	yang-instances+cbor-seq
POST	rpc, action	yang-instances+cbor-seq	yang-instances+cbor-seq
any error response	any	–	**yang-data+cbor; id=sid**

Proposed next steps

- [ ] Get broader review of the PRs
- [ ] write text to handle above issues in Appendix D
- [ ] submit –23 before US Thanksgiving
- [ ] WGLC? (Previous WGLCs were 2023-09-04 and 2020-07-17)
  - use WGLC time to add RFC 7942 "implementation status"?
- [ ] Prepare work on postponed items (new I-Ds)