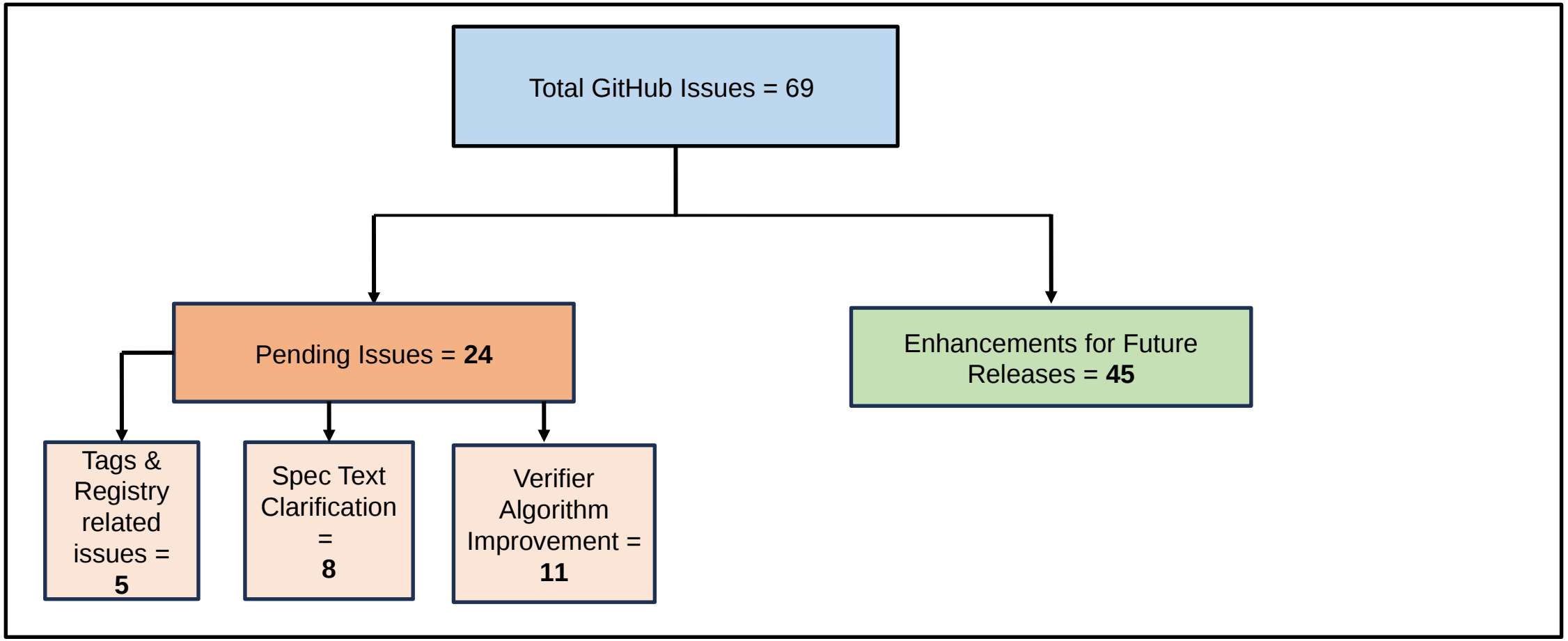
CoRIM

https://datatracker.ietf.org/doc/draft-ietf-rats-corim/04/

Agenda

- Status and Progress
- General Tidy Up
- Enhancements
- Verifier Algorithm - Simplification

Status and Progress



Progress since IETF 118

- 8 issues resolved 17 new issues created

General Tidy Up

- Tightened the usage of “profiles”

- Discussed extensibility in more detail
  - Extensibility using positive code points registered with IANA and documented separately
  - Vendor defined extensions using negative code points

- Added clarity on key terms used (example Accepted Claims Set)

Enhancements

- Added “*Tagged Bytes*” as a new Identifier Type, in the specification
  - Useful type to model variable length Identity in Class, Instance, or Group Identity
  - Example include, Instance Identity of Arm CCA Realm and AMD SEV-SNP Chip Identifier

- Added “Integrity Registers” as one of the Measurement Values
  - Used to model one or more named `measurement object`
  - Each measurement object has a unique identifier and one or more associated digests
  - Integrity Registers provide a mechanism to model TPM PCRs or Workload Measurements pertaining to an Environment

Enhancements

- There are cases, when Reference Value matching needs to span multiple Environments/sub-environments for a given Endorsed Value to be associated to a Target Environment

- Use case examples include

  a. A security certification only granted to an Attester that that runs a combination of certain software component(s) at a specific version

  b. A composite Attester achieving a benchmark, only when a given combination of Target Environments (sub-Attesters) running a specific revision and configuration

Enhancements

- A new triple known as “Multi - Environment Conditional (**MEC**) Endorsement Triples Added ”
  - Triples describing a series of Endorsements that
    - are applicable based on acceptance of a series of Stateful Environment Records
- A *mec-endorsement-triple-record* has following parameters
  - Conds : all target environment, along with specified state, that need to match state-triples entries into ACS
  - Endorsements : endorsements that are added to the ACS state-triples, if all conditions match

Verifier Algorithm - Simplification

- Introduced layers of Evidence Matching
- Plan to retain basic layer (relevant to all use cases) in the main parts of the specification
- More advanced stage verification will be moved to Appendix