VoIP MIB Modules

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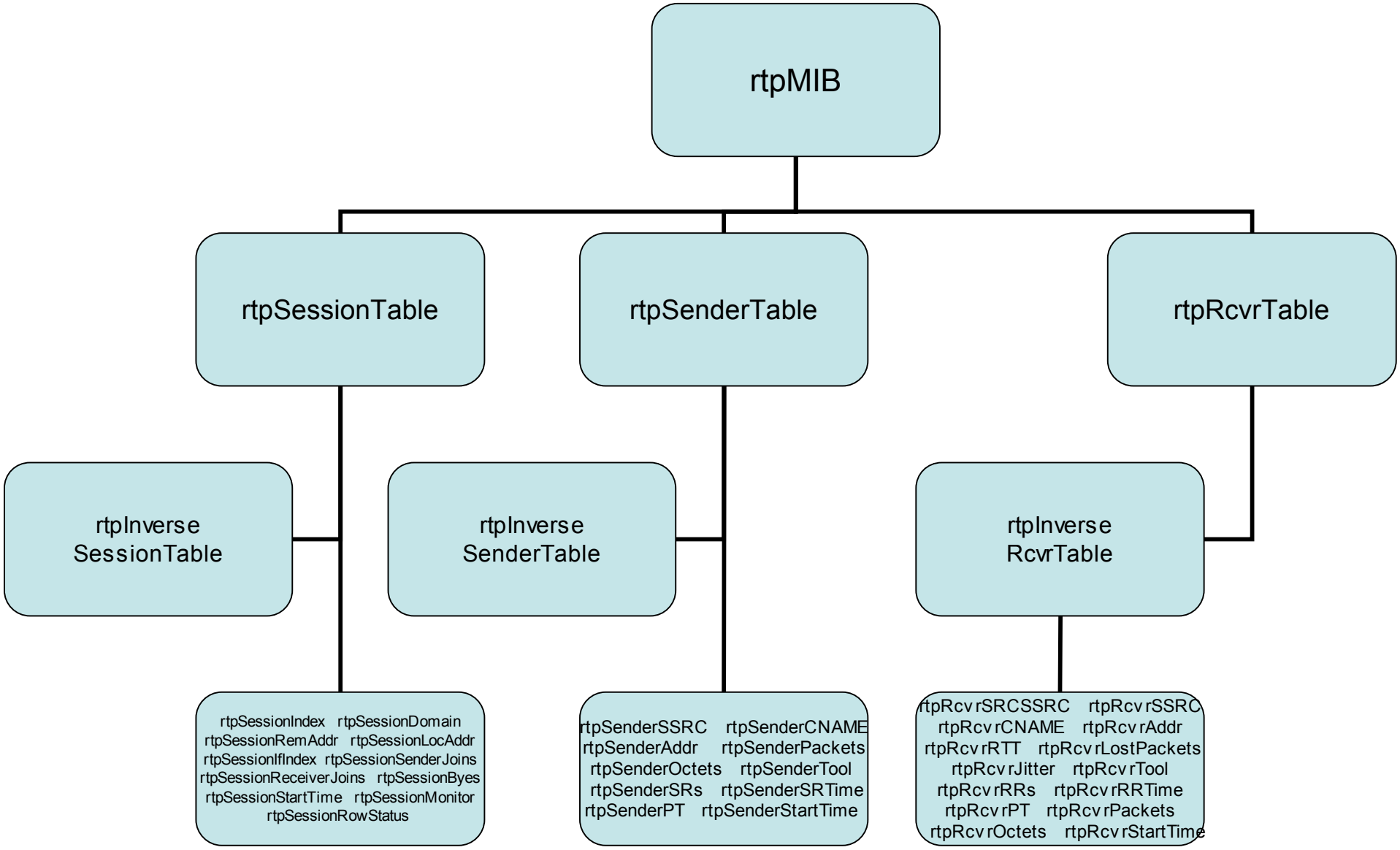
RTP MIB

- RFC 2959 – October 2000
  - AVT WG chartered to update the RTP MIB including alignment with latest version of RTP - RFC 3550
- Structured around the RTP concepts:
  - Session
  - Sender
  - Receiver
- Applicability
  - RTP Host Systems
  - RTP Monitors

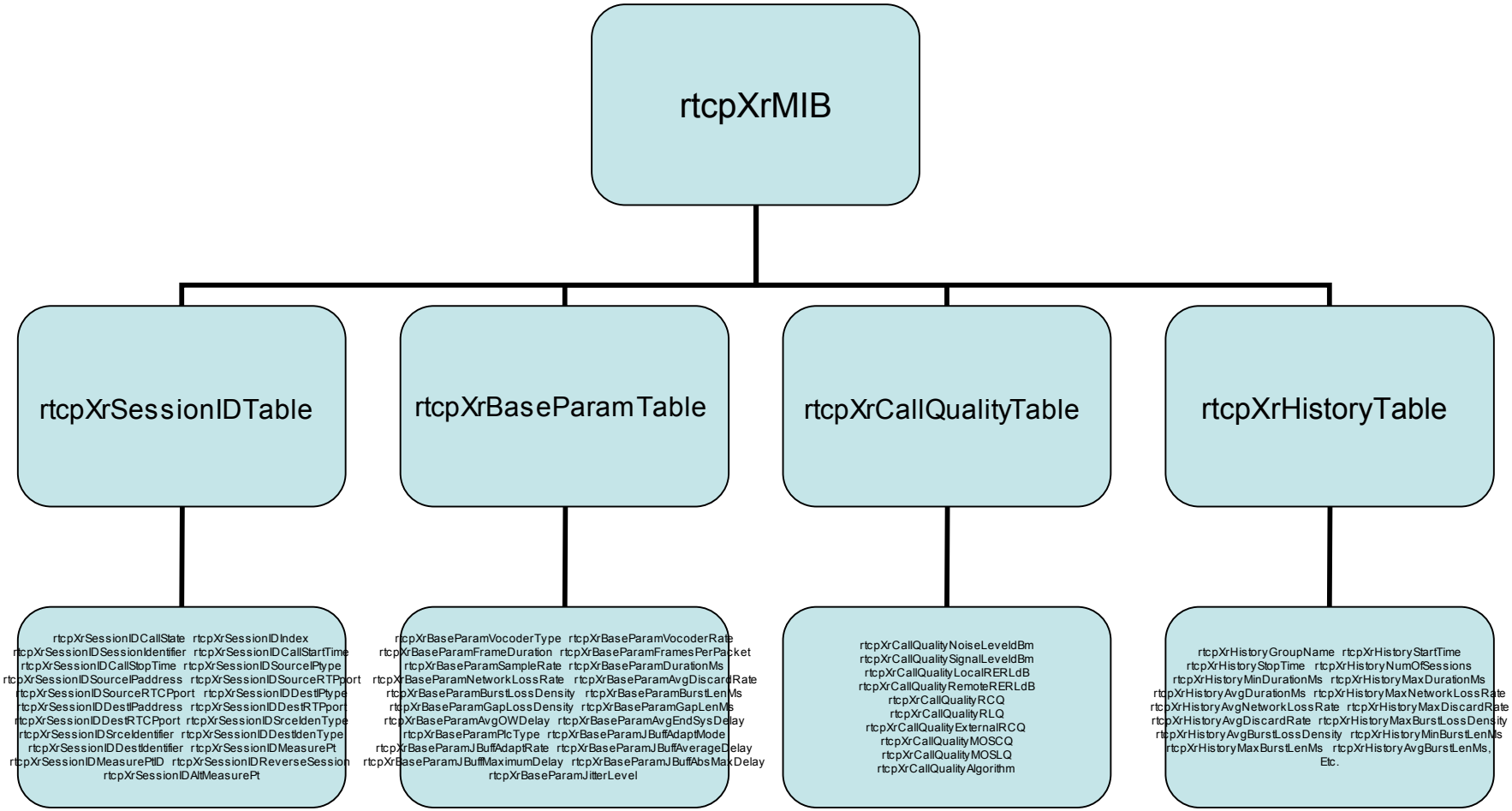
RTP MIB Structure



RTCP XR MIB

- Based on the extended reports technology defined in RFC 3611
- http://www.ietf.cnri.reston.va.us/internet-drafts/draft-ietf-avt-rtcp-xr-mib-02.txt
- Structured around the RTP concepts:
  - Session
  - Sender
  - Receiver
- Applicability
  - RTP Host Systems
  - Intermediate Systems
- Data model
  - Call Quality parameters
  - History

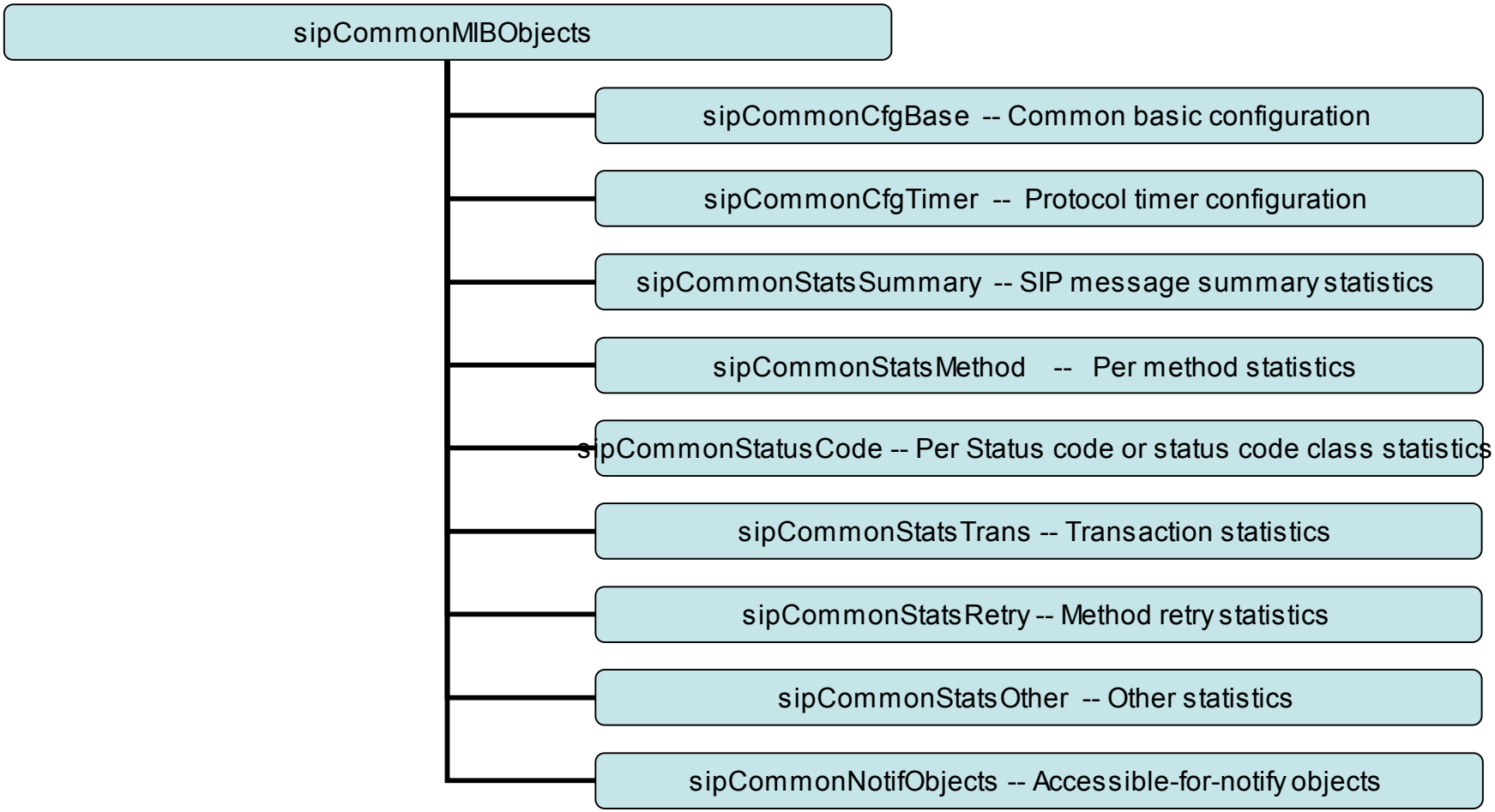
RTCP XR MIB Structure



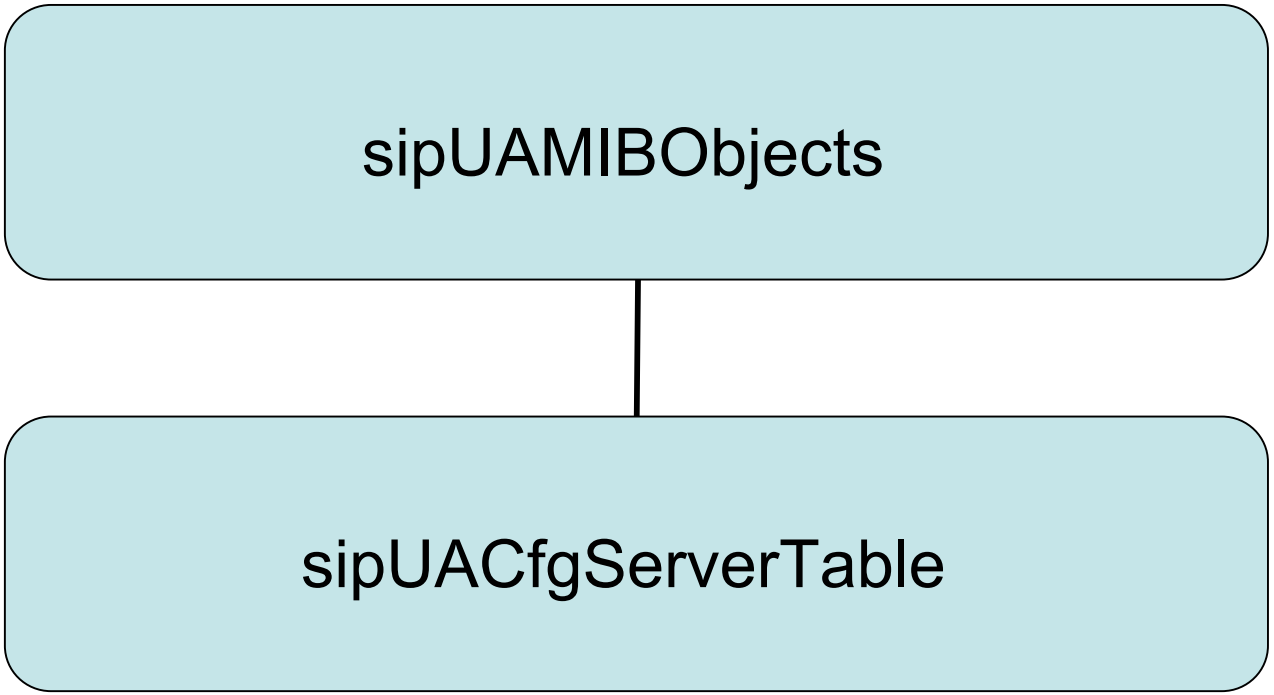
SIP MIB

- SIP WG
  - http://www.ietf.cnri.reston.va.us/internet-drafts/draft-ietf-sip-mib-09.txt
  - Underwent ‘MIB Doctor’ review
- Common MIB
- MIB modules per SIP entities as defined by RFC 3261
  - User Agents
  - Servers (Proxy, Redirect and Registrar)
- Supported operations
  - Status monitoring
  - Protocol statistics
  - Configuration of notifications
- Structure and indexation based on the NETWORK-SERVICES-MIB, RFC 2788
  - at a minimum, it MUST support the index and name objects (applIndex and applName) in the application table (applTable).

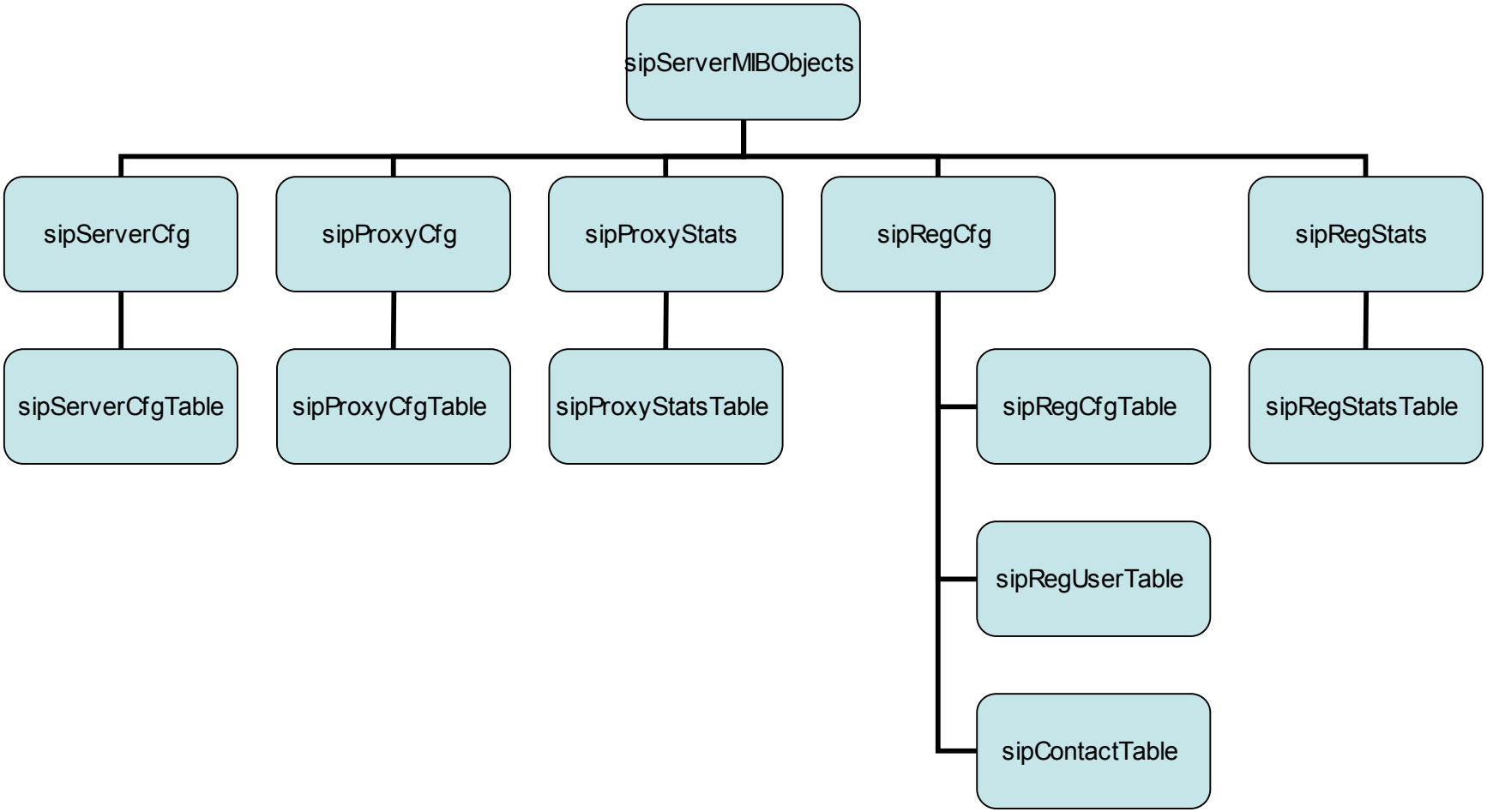
SIP Common MIB



User Agent MIB



SIP Server MIB



Conclusions

- IETF WGs develop MIB modules
  - ‘push’ by the IESG
  - Late in the charter, even later in the process
- Most of the defined objects deal with protocol statistics and performance monitoring
  - No configuration excepting notification and thresholds controls
    - There are other tools and protocols used for configuration / provisioning – e.g. http://www.ietf.cnri.reston.va.us/internet-drafts/draft-ietf-sipping-config-framework-07.txt
  - some specific alarms and status indications
- The level of deployment is unclear
  - Some support in vendors applications
- No documented work on potential problems
  - Traversal
  - Congestion