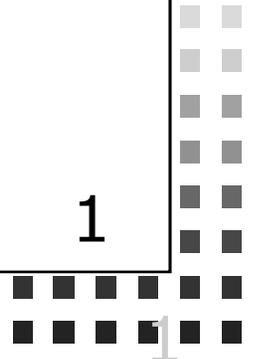
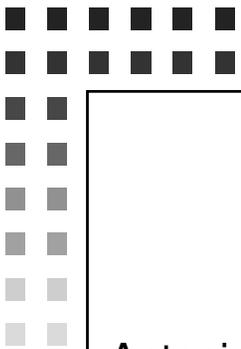


Babel Information Model

Barbara Stark
Mahesh Jethanandani
IETF 108, July 2020





We completed WG last call, posted rev -10 last October but...

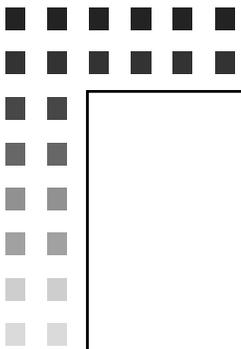
Antonin proposed (and did a PR for) the following items:

- Don't pluralize *-obj
- Fix naming inconsistencies (key -> mac-key, dtls-obj -> dtls-cert-obj, and others)
- Fix the year to 2020
- Fixed artwork indentation
- Removed dangling branches from the overview tree
- ... and I have merged it (yesterday) into the Editor's version on github. I'll go through the Editor's version and do another revision after we also get agreement on Items 1 and 2.

Thanks Antonin!

We also had some discussion on a few items (more details on next slide).



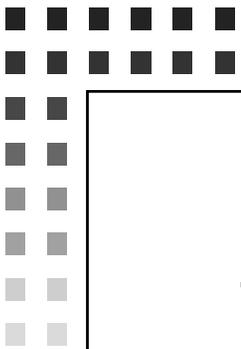


Item #1: Clearing vs. Enabling Statistics

We discussed whether enabling statistics or packet log should also clear previously collected data. We agreed it should not.

Statistics already has separate enable and reset Booleans (`babel-stats-enable`, `babel-stats-reset`). Description needs to be clear that stats are not reset on enable; to clear stats, the reset must be used.

Packet Log currently has `babel-packet-log-enable`. But there is no way to clear or delete a log.



Item #2: Clearing vs. Enabling Packet Log

This one is trickier.

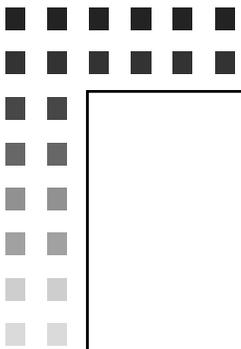
Packet Log currently has `babel-packet-log-enable`. But there is no way to clear or delete a log.

I had suggested there were 4 possible holistic behaviors a user might want to accomplish when they ask for logging:

1. Old file is deleted or old memory store is cleared/released, new file is started or memory space created with new reference.
2. Old file / memory store stays, new file / memory store is started with new reference. // there is no longer a reference specified in the Babel info model that would point to the old file or memory; some DM schemes, like TR-181, would still allow access to the log (the Babel packet log is a reference to an entry in a log object); where the log came from, though, would be lost unless it was incorporated in the filename by the implementation or otherwise contained in log metadata; may need to consider if something needs to be said about persistence across reboots
3. Existing referenced file / memory store is appended.
4. Existing referenced file / memory store is cleared and then appended.



In the absence of a reset function we should expect 3. If we had a reset function 1 or 4 would be ok but 2 should be avoided. There is no expectation for logs to persist across reboot.

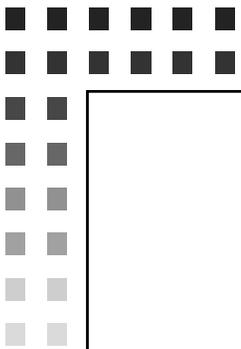


Item #2, continued:

Mahesh said:

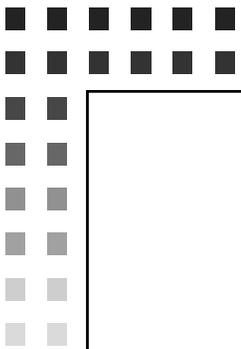
“YANG DM cannot enforce what happens outside of the model. Of the behaviors noted below, the DM cannot enforce what happens to the contents of the log file/memory. All it can do is to clear the reference to the log file/memory. Therefore in 1 it cannot delete the old file or clear the old memory. In 4 it cannot clear the existing file/memory.

You do ask in 1, 2 that the old reference be replaced by the new reference. For that you do not need a clear/reset action. All you have to do is to overwrite the old reference with a new reference.”



Item #2, concluded:

**I think we need some packet log reset method,
but I'd really like additional input.**



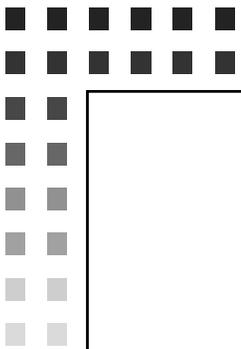
Item #3: converge-fast

Since the most recent drafts of rfc6126bis now have 2 examples of initial interval settings (for cases where fast convergence is desired, or where slow convergence is acceptable and less chattiness is desired), I don't like that we have no means for the user to express what their preference is around this (in case an implementation could support both cases). Should we have something at the top level of the model like:

boolean rw converge-fast;

converge-fast: Indicates whether the user wants the network to converge quickly (which will cause Babel messages to be sent more frequently), or prefers fewer Babel messages with slower time to convergence. Fast convergence is desired if "true". An implementation MAY choose to expose this parameter as read-only ("ro").





Next steps

- **Post -11 draft.**
- **Do we need another WGLC on -11. ?**