Compact TLS draft-08

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Minor changes since IETF 114 (draft-06)

- **New field**: CTLSExtensionTemplate. `self_delimiting_extensions`
  - From review for formal analysis by Théophile Wallez (INRIA).
  - Ensures both sides agree on which extensions don’t need a length prefix.
- Pinning the `pre_shared_key` extension in the cTLS Template is **prohibited**.
  - Credit to Ilari Liusvaara for pointing out that this extension needs special handling.
- Lots of minor editorial changes and cleanups
  - No more discussion of elliptic curve compressed representations. This can be handled independently of cTLS.
  - Reworked examples.
  - More guidance and explanation on various points.
Status

- Formal analysis ongoing and early results look promising (with one change already in cTLS-08).
- Implementation work ongoing (by Hannes).
  - Please ping us to do interop testing.
Open Issues

- **#80**: Is there any possibility of confusion about:
  - whether a supported `NamedGroup` produces fixed-length `key_exchanges`?
  - whether a supported `SignatureScheme` produces fixed-length `signatures`?

- **#87**: How should the registry of well-known cTLS profiles work?
  - Can we reasonably embed the entire profile JSON blob into each row in the registry?
  - Can we impose some restrictions on registered profiles (e.g., no certificates)?
    - How does this interact with a FCFS policy?

- **#77**: Racing mirror-image handshakes on an undirected 5-tuple
  - (Accidentally) works in DTLS, but doesn’t work in Datagram cTLS.
  - Should we spend a `ContentType` codepoint or 2 bytes of handshake to make this work?

- **#71**: Decide what to do with `epoch` on streaming transports where it isn’t needed.
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