Template for Noise Extensions

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1. Introduction

This is a template document for writing Noise extension specifications.

This section should contain a few sentences describing the purpose of this extension.

2. Overview

This section should give a brief overview of how your extension works.

Introduce new terms in **bold**. Use internal references such as Section 1. Use bibliographic references such as [1], [2], [3] that refer to bibtex entries in either the spectools/*.bib files or the local my.bib file.

3. More sections

Some guidelines:

- 0. Use bullets, inline code for variable names and similar, and pre-formatted text blocks when needed.
- 1. Follow the same style as the Noise Specification.
- 2. To insert pagebreaks in the PDF document, use the LaTeX \newpage command like so:

- 3. Use Pandoc-specific features sparingly, but Pandoc has a few nice features:
 - Subscripts₁ and superscripts²
 - Tables (see later)
 - Ability to control numbering of lists (e.g. this list starts at 0).

3.1. Subsections

Add as needed.

4. Even more sections

Pandoc tables are helpful for displaying patterns:

```
NN():
                               KN(s):
  -> e
                                 -> s
  <- e, ee
                                 -> e
                                 <- e, ee, se
NK(rs):
                               KK(s, rs):
  <- s
                                 -> s
                                 <- s
  . . .
  -> e, es
  <- e, ee
                                 -> e, es, ss
                                 <- e, ee, se
```

5. Security considerations

You must list security considerations for using your extension, for example a bulleted list like so:

- Confidentiality: Some stuff.
- Integrity: Other stuff.

6. Rationales

Not required, but might be a good idea to explain nonobvious design decisions.

7. IPR

This document is hereby placed in the public domain.

8. Acknowledgements

Make sure to acknowledge prior and related work, and others who contributed.

9. References

- [1] H. Krawczyk, "'Cryptographic extraction and key derivation: The hkdf scheme'." Cryptology ePrint Archive, Report 2010/264, 2010. http://eprint.iacr. org/2010/264
- [2] C. Kudla and K. G. Paterson, "Modular Security Proofs for Key Agreement Protocols," in Advances in Cryptology ASIACRYPT 2005: 11th International Conference on the Theory and Application of Cryptology and Information Security, 2005. http://www.isg.rhul.ac.uk/~kp/ModularProofs.pdf
- [3] H. Krawczyk and P. Eronen, "HMAC-based Extract-and-Expand Key Derivation Function (HKDF)." Internet Engineering Task Force; RFC 5869 (Informational); IETF, May-2010. http://www.ietf.org/rfc/rfc5869.txt