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Authors: P. M. Hallam-Baker

Mathematical Mesh 3.0 Part IX: Considerations for Constrained Devices

Abstract

The Mathematical Mesh 'The Mesh' is an infrastructure that facilitates the exchange of configuration and credential data between multiple user devices and provides end-to-end security. This document describes the

[Note to Readers]

Discussion of this draft takes place on the MATHMESH mailing list (mathmesh@ietf.org), which is archived at https://mailarchive.ietf.org/arch/search/?email_list=mathmesh.

This document is also available online at <http://mathmesh.com/Documents/draft-hallambaker-mesh-constrained.html>.

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1. Introduction

2. Definitions

This section presents the related specifications and standard, the terms that are used as terms of art within the documents and the terms used as requirements language.

2.1. Requirements Language

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [[RFC2119](#)].

2.2. Defined Terms

The terms of art used in this document are described in the *Mesh Architecture Guide* [[draft-hallambaker-mesh-architecture](#)].

2.3. Related Specifications

The architecture of the Mathematical Mesh is described in the *Mesh Architecture Guide* [[draft-hallambaker-mesh-architecture](#)]. The Mesh documentation set and related specifications are described in this document.

2.4. Implementation Status

The implementation status of the reference code base is described in the companion document [[draft-hallambaker-mesh-developer](#)].

3. Security Considerations

The security considerations for use and implementation of Mesh services and applications are described in the Mesh Security Considerations guide [[draft-hallambaker-mesh-security](#)].

4. IANA Considerations

All the IANA considerations for the Mesh documents are specified in this document

5. Acknowledgements

A list of people who have contributed to the design of the Mesh is presented in [[draft-hallambaker-mesh-architecture](#)].

6. Normative References

[draft-hallambaker-mesh-architecture]

Hallam-Baker, P., "Mathematical Mesh 3.0 Part I: Architecture Guide", Work in Progress, Internet-Draft, draft-hallambaker-mesh-architecture-13, 9 March 2020, <<https://tools.ietf.org/html/draft-hallambaker-mesh-architecture-13>>.

[draft-hallambaker-mesh-security]

Hallam-Baker, P., "Mathematical Mesh 3.0 Part VII: Security Considerations", Work in Progress, Internet-Draft, draft-hallambaker-mesh-security-04, 9 March 2020, <<https://tools.ietf.org/html/draft-hallambaker-mesh-security-04>>.

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, DOI 10.17487/RFC2119, March 1997, <<https://www.rfc-editor.org/rfc/rfc2119>>.

7. Informative References

[draft-hallambaker-mesh-developer]

Hallam-Baker, P., "Mathematical Mesh: Reference Implementation", Work in Progress, Internet-Draft, draft-hallambaker-mesh-developer-09, 23 October 2019, <<https://tools.ietf.org/html/draft-hallambaker-mesh-developer-09>>.