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High-Assurance Execution Environment (HAE) for Secure Approval
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Abstract

This document specifies the High-Assurance Execution Environment (HAE), a trusted, ephemeral approval environment designed to protect the authorization of high-risk digital and physical actions.

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1. Introduction

The High-Assurance Execution Environment (HAE) provides an isolated, attestation-backed approval environment for high-risk actions such as financial transfers, cloud administrative operations, industrial control system commands, and AI-initiated operations.

2. Requirements Language

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "NOT RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14 ([RFC2119], [RFC8174]) when, and only when, they appear in all capitals, as shown here.

3. Security Considerations

This document introduces no security considerations beyond those inherent in isolated execution and attestation systems.

4. IANA Considerations

This document has no IANA actions.

5. Normative References

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

[RFC8174] Leiba, B., "Ambiguity of Uppercase vs Lowercase in RFC 2119 Key Words", BCP 14, RFC 8174, May 2017, <<https://www.rfc-editor.org/rfc/rfc8174>>.

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