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Security Extensions For HTML

Status of this Memo

This memo defines an Experimental Protocol for the Internet community. It does not specify an Internet standard of any kind. Discussion and suggestions for improvement are requested. Distribution of this memo is unlimited.

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Abstract

This memo describes a syntax for embedding S-HTTP negotiation parameters in HTML documents. S-HTTP, as described by RFC 2660, contains the concept of negotiation headers which reflect the potential receiver of a message's preferences as to which cryptographic enhancements should be applied to the message. This document describes a syntax for binding these negotiation parameters to HTML anchors.

1. Introduction
2. Anchor Attributes

We define the following new anchor (and form submission) attributes:

DN -- The distinguished name of the principal for whom the request should be encrypted when dereferencing the anchor's url. This need not be specified, but failure to do so runs the risk that the client will be unable to determine the DN and therefore will be unable to encrypt. This should be specified in the form of RFC1485, using SGML quoting conventions as needed.

NONCE -- A free-format string (appropriately SGML quoted) which is to be included in a SHTTP-Nonce: header (after SGML quoting is removed) when the anchor is dereferenced.

CRYPTOPTS -- Cryptographic option information as described in


```

GEgU2VjdXJpdHksIEluYy4xLjAsBgNVBAsTJUxvdyBBc3N1cmFuY2UgQ2Vyd
G1maWNhdGlvbiBBdXRob3JpdHkwHhcNOTQwMTA3MDAwMDAwWhcNOTYwMTA3M
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XJpdHksIEluYy4xHDAaBgNVBAsTElBlcnNvbWVhZGQ2VydG1maWNhdGUwaTANB
gkqhkiG9w0BAQEFAANYADEVAk4GqghQDa9Xi/2zAdYEqJVicYh1LN1FpI9tX
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Tiq4LnwgTda8xQX4elJz9QzQobkE3XVOjvAtCFcmiin80RB8AAAMYAAAAAAA
AAAAA==
</CERTS>
<A name=foobar
DN="CN=Setec Astronomy, OU=Persona Certificate,
O="&quot;RSA Data Security, Inc.&quot;; C=US"
CRYPTOPTS="SHTTP-Privacy-Enhancements: recv-refused=encrypt;
SHTTP-Signature-Algorithms: recv-required=NIST-DSS"
HREF="shttp://research.nsa.gov/skipjack-holes.html">
Don't read this. </A>

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3. Security Considerations

This entire document is about security.

4. Authors' Addresses

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5. References

[SHTTP] Rescorla, E. and A. Schiffman, "The Secure HyperText Transfer Protocol", RFC 2660, August 1999.

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