

## Creation of a Registry for smime-type Parameter Values

### Abstract

Secure/Multipurpose Internet Mail Extensions (S/MIME) defined the Content-Type parameter "smime-type". As the list of defined values for that parameter has increased, it has become clear that a registry is needed to document these values. This document creates the registry, registers the current values, and specifies the policies for registration of new values.

### Status of This Memo

This is an Internet Standards Track document.

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## 1. Introduction

Secure/Multipurpose Internet Mail Extensions (S/MIME) defined the Content-Type "application/pkcs7-mime" and the parameter "smime-type", along with four valid values for the parameter [RFC3851]. Certificate Management over CMS (CMC) added two new parameter values [RFC5273]. [RFC5751] replaced RFC 3851 and registered the application/pkcs7-mime media type, but did not create a registry for the smime-type values.

Enhanced Security Services for S/MIME [RFC2634] and Securing X.400 Content with S/MIME [RFC3854] also add smime-type values.

When Enrollment over Secure Transport [RFC7030] added another parameter value, it became clear that a registry for smime-type parameter values is necessary. Section 2 creates this registry, registers the current values that are defined in previously published documents, and specifies the policies for registration of new values.

## 2. IANA Considerations

IANA has changed the reference field for the media type application/pkcs7-mime to refer to [RFC5751] and this document. This document replaces the references to RFC 5273 and RFC 7030, which are no longer needed.

IANA has created a new sub-registry under the "MIME Media Type Sub-Parameter Registries" top-level registry. The new registry is "Parameter Values for the smime-type Parameter", and it references this document and [RFC5751]. The initial values for the registry are as follows:

smime-type value	Reference
certs-only	[RFC5751], Section 3.2.2
CMC-Request	[RFC5273], Section 3
CMC-Response	[RFC5273], Section 3
compressed-data	[RFC5751], Section 3.2.2
enveloped-data	[RFC5751], Section 3.2.2
enveloped-x400	[RFC3854], Section 3.3.1
server-generated-key	[RFC7030], Section 4.4.2
signed-data	[RFC5751], Section 3.2.2
signed-receipt	[RFC2634], Section 2.4, bullet 10
signed-x400	[RFC3854], Section 3.2.1

New values can be registered using the Specification Required policy, as defined in [RFC5226]. The S/MIME Message Specification [RFC5751], Section 3.2.2, specifies guidelines for assigning new smime-type parameter values, and those guidelines apply to the assignment of values in this registry.

## 3. Security Considerations

This document is purely administrative and presents no security issues.

## 4. References

### 4.1. Normative References

- [RFC5226] Narten, T. and H. Alvestrand, "Guidelines for Writing an IANA Considerations Section in RFCs", [BCP 26](#), [RFC 5226](#), May 2008.
- [RFC5751] Ramsdell, B. and S. Turner, "Secure/Multipurpose Internet Mail Extensions (S/MIME) Version 3.2 Message Specification", [RFC 5751](#), January 2010.

### 4.2. Informative References

- [RFC2634] Hoffman, P., "Enhanced Security Services for S/MIME", [RFC 2634](#), June 1999.
- [RFC3851] Ramsdell, B., "Secure/Multipurpose Internet Mail Extensions (S/MIME) Version 3.1 Message Specification", [RFC 3851](#), July 2004.
- [RFC3854] Hoffman, P., Bonatti, C., and A. Eggen, "Securing X.400 Content with Secure/Multipurpose Internet Mail Extensions (S/MIME)", [RFC 3854](#), July 2004.
- [RFC5273] Schaad, J. and M. Myers, "Certificate Management over CMS (CMC): Transport Protocols", [RFC 5273](#), June 2008.
- [RFC7030] Pritikin, M., Yee, P., and D. Harkins, "Enrollment over Secure Transport", [RFC 7030](#), October 2013.

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