                        URI Attributes for OpenPGP
                     draft-vb-openpgp-uri-attribute-00

Abstract

   This specification extends OpenPGP with the URI Attribute as a new
   type of User Attribute.

Status of This Memo

   This Internet-Draft is submitted in full conformance with the
   provisions of BCP 78 and BCP 79.

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1. Introduction

   The OpenPGP specification [RFC4880] allows primary keys to associate
   themselves with identities in the form of User ID and User Attribute
   packets. The only defined type of User Attribute is JPEG. This
   document introduces the URI subpacket as an additional type of User
   Attribute subpacket.

1.1. Scope

   Similar to RFC 4880, the scope of this document is limited to a
   technical description of the format, and does not include specifics
   on how URI Attributes may be used by implementations.

1.2. Conventions Used in This Document

   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]. Any
   implementation that adheres to the format and methods specified in
   this document is called a compliant application. Compliant
   applications are a subset of the broader set of OpenPGP applications
   described in [RFC4880]. Any [RFC2119] keyword within this document
   applies to compliant applications only.

2. URI User Attribute subpacket

   The URI subpacket is added as an additional User Attribute subpacket
   with type id TBD to expand Section 5.12 of the OpenPGP specification
   [RFC4880], "User Attribute Packet (Tag 17)". The body of this
   subpacket consists of a single UTF-8 encoded URI string. A URI
   Attribute is a User Attribute packet with a single URI subpacket.

   The purpose of this packet type is to provide a mechanism for
   associating the keyring with an identity encoded in a URI. The

particular semantics of a URI depend on its scheme, there are no
restrictions on the URIs which may appear in URI Attributes.

An implementation SHOULD NOT issue certificates for URI Attributes
with unknown URI schemes. It MAY treat such packets as opaque, or
display their contents in a generic way.

3. Compatibility

An implementation SHOULD NOT use a URI Attribute to fulfill the
minimum requirement of one User ID packet in a transferable keyring.
This is to ensure that at least one non-opaque type of user id is
part of every keyring.

4. IANA Considerations

IANA is requested to assign a number to the URI User Attribute
subpacket, updating the User Attribute Type namespace established in
[RFC4880]. See Section 2.

```
+------+---------------------+-----------+
| ID   | User Attribute Type | Reference |
+------+---------------------+-----------+
| TBD1 | URI                 | This doc  |
+------+---------------------+-----------+
```

[Notes to RFC-Editor: Please remove the table above on publication.
There are no non-standardized types used in current implementations
known to the author. As of now 2 is the next free number.]

5. Security Considerations

The security considerations of the URI Attribute are the same as for
other identity packets, leaving the considerations from [RFC4880]
unchanged.

6. Normative References

[RFC2119]   Bradner, S., "Key words for use in RFCs to Indicate
            Requirement Levels", BCP 14, RFC 2119, March 1997.

[RFC4880]   Callas, J., Donnerhacke, L., Finney, H., Shaw, D., and R.
            Thayer, "OpenPGP Message Format", RFC 4880, November 2007.

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