Carrying PostScript in X.400 and MIME

1. Introduction

This document describes methods for carrying PostScript information in the two standard mail systems MIME and X.400, and the conversion between them. It uses the notational conventions of [BODYMAP], and the conversion is further described in [MIXER].

Two ways of carrying PostScript in X.400 are described. One is using the FTAM Body Part, and one uses the Extended Body Part originally described in RFC 1494.

The FTAM method is recommended.
2. The PostScript body part

Carrying PostScript in X.400 as an Extended Body Part was originally defined in RFC 1494. This specification carries that work forward now that RFC 1494 is obsoleted by [BODYMAP].

The following Extended Body Part is defined for PostScript data streams. It has no parameters.

```
postscript-body-part EXTENDED-BODY-PART-TYPE
  DATA             OCTET STRING
:= mime-postscript-body

mime-postscript-body OBJECT IDENTIFIER ::= { mixer-bp-data 2 }
```

3. The PostScript FTBP

The PostScript FTBP is identified by having the FileTransferParameters.environment.application-reference set to id-mime-ftbp-postscript.

The definition is:

```
id-mime-ftbp-postscript OBJECT IDENTIFIER ::= { mixer-bp-data 6 }
```

4. The Application/PostScript content-type

In MIME, PostScript is carried in the body part "application/PostScript", which is defined in RFC 1521.

5. MIXER conversion

X.400 Body Part: Extended Body Part, OID mime-postscript-body MIME Content-Type: application/postscript Conversion Type: No conversion

The two representations of PostScript both contain a single stream of octets. This stream of octets can be copied with no problems between the representations. No other data needs to be converted.

6. MIXER conversion

X.400 Body Part: FTBP, OID mime-ftbp-postscript-body MIME Content-Type: application/postscript Conversion Type: No conversion
The two representations of PostScript both contain a single stream of octets. This stream of octets can be copied with no problems between the representations. No other data needs to be converted.

7. OID Assignments

The first OID is also defined in [BODYMAP].

```plaintext
POSTSCRIPT-MAPPINGS DEFINITIONS ::= BEGIN

IMPORTS
mixer-bp-data
FROM MIXER-MAPPINGS

id-mime-postscript-body OBJECT IDENTIFIER ::= 
  { mixer-bp-data 2 };

id-mime-ftbp-postscript OBJECT IDENTIFIER ::= 
  { mixer-bp-data 6 };

END
```

8. Security Issues

The issues concerning PostScript and security are well discussed in RFC 2046. No additional security issues are identified by this memo.

9. Trademark Issues

PostScript is a trademark of Adobe Systems, Inc.

10. References

[MIXER]

[BODYMAP]
11. Author's Address

    Harald Tveit Alvestrand
    UNINETT
    Postboks 6883 Elgeseter
    N-7002 TRONDHEIM

    Phone: +47 73 59 70 94
    EMail: Harald.T.Alvestrand@uninett.no
12. Full Copyright Statement

Copyright (C) The Internet Society (1998). All Rights Reserved.

This document and translations of it may be copied and furnished to
others, and derivative works that comment on or otherwise explain it
or assist in its implementation may be prepared, copied, published
and distributed, in whole or in part, without restriction of any
kind, provided that the above copyright notice and this paragraph are
included on all such copies and derivative works. However, this
document itself may not be modified in any way, such as by removing
the copyright notice or references to the Internet Society or other
Internet organizations, except as needed for the purpose of
developing Internet standards in which case the procedures for
copyrights defined in the Internet Standards process must be
followed, or as required to translate it into languages other than
English.

The limited permissions granted above are perpetual and will not be
revoked by the Internet Society or its successors or assigns.

This document and the information contained herein is provided on an
"AS IS" basis and THE INTERNET SOCIETY AND THE INTERNET ENGINEERING
TASK FORCE DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING
BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION
HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF
MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.