                The application/whoispp-response Content-type

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Abstract

   This document defines the expression of Whois++ protocol (RFC1835)
   responses within MIME (Multipurpose Internet Mail Extensions)
   (RFC2046) media types. The intention of this document, in
   conjunction with RFC 2957 is to enable MIME-enabled mail software,
   and other systems using Internet media types, to carry out Whois++
   transactions.

1. MIME Registration Information

   To: iana@isi.edu Subject: Registration of MIME media type
   application/whoispp-response

   MIME Type name: Application

   MIME subtype name: whoispp-response

   Required parameters: none

   Optional parameters: none

   Encoding considerations: Any valid MIME encodings may be used

   Security considerations: This content-type contains purely
   descriptive information (i.e., no directives). There are security
   considerations with regards to the appropriateness (privacy) of

   information provided through the use of this content-type, and the
   authenticity of the information so-provided. This content-type
   provides no native mechanisms for authentication.

   Published specification: this document

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   Intended usage: common

2. whoispp-response Syntax

   The following grammar, which uses ABNF-like notation as defined in
   [RFC2234], defines a subset of responses expected from a Whois++
   server upon receipt of a valid Whois++ query. As such, it describes
   the expected structure of a whoispp-response media type object.

   N.B.: As outlined in the ABNF definition, rule names and string
   literals are in the US-ASCII character set, and are case-insensitive.

       server   =   goodmessage mnl output mnl endmessage nl
                              / badmessage nl endmessage nl

       output   =   full / abridged / summary / handle

       full   =   0*(full-record / server-to-ask)

       abridged   =   0*(abridged-record / server-to-ask)

       summary   =   summary-record

       handle   =   0*(handle-record / server-to-ask)

       full-record   =   "# FULL " template serverhandle localhandle
                                    system-nl
                              1*(fulldata system-nl)
                              "# END" system-nl

       abridged-record =   "# ABRIDGED " template serverhandle localhandle
                                    system-nl
                              abridgeddata
                              "# END" system-nl

```
summary-record  =   "# SUMMARY " serverhandle system-nl
                     summarydata
                     "# END" system-nl

handle-record   =   "# HANDLE " template serverhandle localhandle
                            system-nl

server-to-ask   =   "# SERVER-TO-ASK " serverhandle system-nl
                     server-to-askdata
                     "# END" system-nl

fulldata        =   " " attributename ": " attributevalue

abridgeddata    =   " " 0*( attributevalue / tab )

summarydata     =   " Matches: " number system-nl
                    [" Referrals: " number system-nl]
                    " Templates: " template 0*( system-nl "-"
                                            template)

server-to-ask-data = " Server-Handle:" serverhandle system-nl
                     " Host-Name: " hostname system-nl
                     " Host-Port: " number system-nl
                     [" Protocol: " prot system-nl]
                     0*(" " labelstring ": " labelstring system-nl)

attributename   =   1*attrbyte

attrbyte        =   <%d33-127 except specialbyte>

attributevalue  =   longstring

template        =   labelstring

serverhandle    =   labelstring

localhandle     =   labelstring

hostname        =   labelstring

prot            =   labelstring

longstring      =   bytestring 0*( nl ( "+" / "-" ) bytestring )

bytestring      =   0*charbyte

labelstring     =   0*restrictedbyte
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restrictedbyte  =   <%d32-%d255 except specialbyte>

charbyte        =   <%d32-%d255 except nl>

specialbyte     =   ":" / " " / tab / nl

tab             =   %d09

mnl             =   1*system-nl

system-nl       =   nl [ 1*(message nl) ]

nl              =   %d13 %d10

message         =   [1*( messagestart "-" bytestring nl)]
                    messagestart " " bytestring nl

messagestart    =   "% " digit digit digit

goodmessage     =   [1*( goodmessagestart "-" bytestring nl)]
                    goodmessagestart " " bytestring nl

goodmessagestart=   "% 200"

messagestart    =   "% " digit digit digit

badmessage      =   [1*( badmessagestart "-" bytestring nl)]
                    badmessagestart " " bytestring nl

badmessagestart =   "% 5" digit digit

endmessage      =   endmessageclose

endmessageclose =   [endmessagestart " " bytestring nl]
                    byemessage

endmessagestart =   "% 226"

byemessage      =   byemessagestart " " bytestring nl

endmessagestart =   "% 203"

number          =   1*( digit )

digit           =   "0" / "1" / "2" / "3" / "4" / "5" / "6" / "7"
                    / "8" / "9"
```

3. Security Considerations

    Security issues are discussed in section 1.

4. References

    [ALVE95]   Alvestrand H., "Tags for the Identification of Languages",
               RFC 1766, March 1995.

    [RFC2234] Crocker, D. and P. Overell, "Augmented BNF for Syntax
               Specifications: ABNF", RFC 2234, November 1997.

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    [RFC1835] Deutsch, P., Schoultz R., Faltstrom P. and C. Weider,
               "Architecture of the WHOIS++ service", RFC 1835, August
               1995.

    [HARR85]   Harrenstein, K., Stahl, M. and E. Feinler, "NICNAME/WHOIS",
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    [POST82]   Postel J., "Simple Mail Transfer Protocol", STD 10, RFC
               821, August 1982.

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    [WINDX]   Weider, C., Fullton J. and S. Spero, "Architecture of the
               Whois++ Index Service", RFC 1913, February 1996.

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Acknowledgement