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The application/whoispp-response Content-type

Status of this Memo

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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
```

```
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.

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[RFC2957] Daigle, L. and P. Faltstrom, "The application/whoispp-query Content-Type", RFC 2957, October 2000.

[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", RFC 954, October 1985.

[POST82] Postel J., "Simple Mail Transfer Protocol", STD 10, RFC 821, August 1982.

[IIIR] Weider C. and P. Deutsch, "A Vision of an Integrated Internet Information Service", RFC 1727, December 1994.

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

5. Authors' Addresses

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