Network Working Group Request for Comments: 2957 Category: Informational L. Daigle Thinking Cat Enterprises P. Faltstrom Cisco Systems Inc. October 2000

The application/whoispp-query Content-Type

Status of this Memo

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Abstract

This document defines the expression of Whois++ protocol (RFC 1835) queries within MIME (Multipurpose Internet Mail Extensions) (RFC 2046) media types. The intention of this document, in conjunction with RFC 2958 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-query

MIME Type name: Application

MIME subtype name: whoispp-query

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

Person & email address to contact for further information:

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Intended usage: common

2. whoispp-query Syntax

The following grammar, which uses BNF-like notation as defined in [RFC2234] defines the set of acceptable input to a Whois++ server. As such, it describes the expected structure of a whoispp-query 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.

whois-command (system-command / terms [":" globalcnstrnts])

"constraints" / "describe" / "commands" /
"polled-by" / "polled-for" / "version" / "list" /
"show" [1*sp bytestring] / "help" [1*sp
bytestring] / "?" [bytestring] system-command

and-expr *("or" and-expr) terms

not-expr *("and" not-expr) and-expr =

["not"] (term / ("(" terms ")")) not-expr

(generalterm / specificterm / combinedterm) term

localcnstrnts

generalterm bytestring

specificname "=" bytestring specificterm

specificname "handle" / "value" / "template"

combinedterm attributename "=" bytestring =

globalcnstrnt *(";" globalcnstrnt) globalcnstrnts =

```
"format" "=" format / "maxfull" "=" 1*digit /
"maxhits" "=" 1*digit / "case" "=" casevalue /
qlobalcnstrnt
                     =
                           "search" "=" searchvalue / opt-globalcnst
                          "authenticate" "=" auth-method / "language" "="
opt-globalcnst
                          language / "incharset" "=" characterset /
"outcharset" "=" characterset / "ignore" "="
attriblist / "include" "=" attriblist
localcnstrnts
                          0*(";" localcnstrnt)
                          "case" "=" casevalue / "search" "=" searchvalue
localcnstrnt
                     =
                          "full" / "abridged" / "handle" / "summary" /
format
                           "server-to-ask'
auth-method
                         bytestring
                     = <The language code defined in RFC1766 [ALVE95]>
language
                          "us-ascii" / "iso-8859-1" / "iso-8859-2" / "iso-8859-3" / "iso-8859-4" / "iso-8859-5" / "iso-8859-6" / "iso-8859-7" / "iso-8859-8" / "iso-8859-9" / "iso-8859-10" / "UNICODE-1-1-UTF-8" / "UNICODE-2-0-UTF-8" "UTF-8"
characterset
                              :"UTF-8" is as defined in [RFC2279]. This is
                             the character set label that should be used
                              for UTF encoded information; the labels
                              "UNICODE-2-0-UTF-8" and "UNICODE-1-1-UTF-8"
                              ;are retained primarily for compatibility with
;older Whois++ servers (and as outlined in
                              ;[RFC2279]).
                           "exact" / "substring" / "regex" / "fuzzy" /
searchvalue
                     =
                           "lstring"
                          "ignore" / "consider"
casevalue
                     =
bytestring
                          0*charbyte
                     =
attributename
                          1*attrbyte
                     =
attriblist
                          attributename 0*("," attributename)
                     =
charbyte
                          "\" specialbyte / normalbyte
normalbyte
                          <%d33-255, except specialbyte>
                     =
```

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NOTE: Blanks that are significant to a query must be escaped. The following characters, when significant to the query, may be preceded and/or followed by a single blank:

%d13 %d10 : CR LF

3. Security Considerations

Security issues are discussed in section 1.

4. References

- Alvestrand H., "Tags for the Identification of Languages", [ALVE95] RFC 1766, March 1995.
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- [RFC2958] Daigle, L. and P. Faltstrom, "The application/whoispp-response Content-type", RFC 2958, October 2000.
- [RFC1835] Deutsch, P., Schoultz, R., Faltstrom, P. and C. Weider, "Architécture of the WHOIS++ service", RFC 1835, August
- [RFC2046] Freed, N. and N. Borenstein, "Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types", RFC 2046, November 1996.

[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.

[RFC2279] Yergeau F., " UTF-8, a transformation format of ISO 10646", RFC 2279, January 1998.

5. Authors' Addresses

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October 2000

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Acknowledgement

Funding for the RFC Editor function is currently provided by the Internet Society.