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The application/whoispp-query Content-Type

Status of this Memo

This memo provides information for the Internet community. It does not specify an Internet standard of any kind. Distribution of this memo is unlimited.

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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

Application MIME Type name:

whoispp-query MIME subtype name:

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

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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]) nl	
system-command	=	"constraints" / "describe" / "commands" / "polled-by" / "polled-for" / "version" / "list" / "show" [1*sp bytestring] / "help" [1*sp bytestring] / "?" [bytestring]	
terms	=	and-expr *("or" and-expr)	
and-expr	=	not-expr *("and" not-expr)	
not-expr	=	["not"] (term / ("(" terms ")"))	
term	=	(generalterm / specificterm / combinedterm) localcnstrnts	
generalterm	=	bytestring	
specificterm	=	specificname "=" bytestring	
specificname	=	"handle" / "value" / "template"	
combinedterm	=	attributename "=" bytestring	

globalcnstrnts = globalcnstrnt *(";" globalcnstrnt)

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- globalcnstrnt = "format" "=" format / "maxfull" "=" 1*digit /
 "maxhits" "=" 1*digit / "case" "=" casevalue /
 "search" "=" searchvalue / opt-globalcnst
- opt-globalcnst = "authenticate" "=" auth-method / "language" "="
 language / "incharset" "=" characterset /
 "outcharset" "=" characterset / "ignore" "="
 attriblist / "include" "=" attriblist
- localcnstrnts = 0*(";" localcnstrnt)
- localcnstrnt = "case" "=" casevalue / "search" "=" searchvalue

format = "full" / "abridged" / "handle" / "summary" /
 "server-to-ask"

auth-method = bytestring

language = <The language code defined in RFC1766 [ALVE95]>

characterset = "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"

> ;"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]).

- casevalue = "ignore" / "consider"
- bytestring = 0*charbyte
- attributename = 1*attrbyte
- attribuist = attributename 0*("," attributename)
- charbyte = "\" specialbyte / normalbyte
- normalbyte = <%d33-255, except specialbyte>

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= <%d33-127 except specialbyte> / "\" <specialbyte except<br="">":" " " tab nl></specialbyte>
= " " / tab / "=" / "," / ":" / ";" / "\" / "*" / "." / "(" / ")" / "[" / "]" / "^" / "\$" / "!" / "?"
= %d09
= %d32 ; space
= "0" / "1" / "2" / "3" / "4" / "5" / "6" / "7" / "8" / "9"

nl = %d13 %d10 ; CR LF

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:

: ; , () = !

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.
 - [RFC2958] Daigle, L. and P. Faltstrom, "The application/whoisppresponse Content-type", RFC 2958, October 2000.
 - [RFC1835] Deutsch, P., Schoultz, R., Faltstrom, P. and C. Weider, "Architecture of the WHOIS++ service", RFC 1835, August 1995.
 - [RFC2046] Freed, N. and N. Borenstein, "Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types", RFC 2046, November 1996.

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

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