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] )

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)
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]).

searchvalue = "exact" / "substring" / "regex" / "fuzzy" / "lstring"

casevalue = "ignore" / "consider"

bytestring = 0*charbyte

attributename = 1*attrbyte

attriblist = attributename 0*";" attributename

charbyte = "\" specialbyte / normalbyte

normalbyte = <\d33-255, except specialbyte>
attrbyte = <%d33-127 except specialbyte> / "\" <specialbyte except ";:" " " tab nl>
specialbyte = " " / tab / ";" / ";," / ";." / ";;" / ";\" / [" / ]" / "^" / "^" / ";$" / ;" / ;?"/ tab = %d09
sp = %d32 ; space
digit = "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


5. Authors’ Addresses

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