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

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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" /  
"1string"

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


[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,

[RFC2046] Freed, N. and N. Borenstein, "Multipurpose Internet Mail
        Extensions (MIME) Part Two: Media Types", RFC 2046, 
        November 1996.
5. Authors' Addresses

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