

The 'wp' and 'yp' Abstract Service Types
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Abstract

This document presents definitions for the ''wp'' (white pages) and ''yp'' (yellow pages) abstract services.

1. Introduction

In "Advertising Services" [[1](#)], several abstract services are proposed. As specified in [[2](#)], the "wp" (white pages) and "yp" (yellow pages) abstract services are documented here.

2. The "wp" Abstract Service

The "wp" abstract service is for locating people via directory or "white pages" services. Version 0.0 of this service specifies four protocols for accessing such services: LDAP, WHOIS++, CCSO/Ph and HTTP.

```

-----template begins here-----
type = wp

version = 0.0

language = EN

description =
  The WP Abstract Service is for locating people using either LDAP, WHOIS,
  CCSO/Ph or HTTP

url-syntax =
url-path      = ldapurl / whoisppurl / phurl / httpurl
ldapurl       = url as defined in [3]
whoisppurl    = url as defined in [4]
httpurl       = url as defined in [5]
phurl         = "ph://" hostport
hostport      = host [ ":" port ]
host          = hostname / hostnumber
hostname      = *( domainlabel "." ) toplabel
domainlabel   = alphanum / alphanum * [alphanum / "-"] alphanum
toplabel      = alpha / alpha * [alphanum / "-"] alphanum
hostnumber    = ipv4-number / ipv6-number
ipv4-number   = 1*3digit 3*3("." 1*3digit)
ipv6-number   = 32*hex
3digit        = digit digit digit
port          = 1*digit
               ; A port number must be included if the
               ; protocol field does not have an IANA
               ; assigned port number.

alphanum      = alpha / digit
alpha         = "a" / "b" / "c" / "d" / "e" / "f" / "g" /
               "h" / "i" / "j" / "k" / "l" / "m" / "n" /
               "o" / "p" / "q" / "r" / "s" / "t" / "u" /
               "v" / "w" / "x" / "y" / "z" /
               "A" / "B" / "C" / "D" / "E" / "F" / "G" /
               "H" / "I" / "J" / "K" / "L" / "M" / "N" /
               "O" / "P" / "Q" / "R" / "S" / "T" / "U" /
               "V" / "W" / "X" / "Y" / "Z"
digit         = "0" / "1" / "2" / "3" / "4" / "5" / "6" /
               "7" / "8" / "9"
-----template ends here-----

```

3. The "yp" Abstract Service

The "yp" abstract service is for locating resources on the Internet and version 0.0 specifies three protocols for accessing such

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services: Z39.50, HTTP, and WHOIS++.

-----template begins here-----

type = yp

version = 0.0

language = EN

description =

The yp Abstract Service is for locating resources either via Z39.50, HTTP or WHOIS.

url-syntax =

url-path = z3950url / httpurl / whoisppurl

z3950url = url as defined in [6]

httpurl = url as defined in [5]

whoisppurl = url as defined in [4]

-----template ends here-----

4. Contact Information

The contact point for version 0.0 of both of these templates is the author.

5. Security Considerations

Both of these abstract services inherit the security considerations of the "service:" URL scheme as specified in [2]. As these services are both abstract, they further inherit considerations from the protocol used to provide the underlying concrete services as discussed below.

5.1 Considerations for the "wp" service

Since the "wp" abstract service can use any of LDAP, HTTP, WHOIS or CCSO/Ph, it inherits the security considerations for each of these protocols. See [3] and [8] for LDAP, [9] and [10] for HTTP, [4] and [11] for WHOIS, and [12] for CCSO/Ph.

5.2 Considerations for the "yp" service Since the "yp" abstract service can use any of HTTP, Z39.50, or WHOIS, it inherits the security considerations for each of these protocols. See [9] and [10] for HTTP, [6] for Z39.50, and [4] and [11] for WHOIS.

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6. Acknowledgments

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7. References

Request For Comments (RFC) and Internet Drafts documents are available from <URL:ftp://ftp.internic.net> and numerous mirror sites

- [1] R. Moats, M. Hamilton, "Advertising Services," Internet Draft (work in progress), February 1997.
- [2] C. Perkins, E. Guttman, J. Kempf, "Service Templates and 'service:' Schemes," Internet Draft (work in progress), October 1997.
- [3] T. Howes, M. Smith, "An LDAP URL Format," [RFC 1959](#), June 1996.
- [4] M. Hamilton, "WHOIS++ URL Specification," Internet Draft (work in progress), May 1997.
- [5] T. Berners-Lee, R. Fielding, and L. Masinter, "Uniform Resource Locators (URL): Generic Syntax and Semantics," [RFC1738](#) as amended by [RFC1808](#) and updated by [draft-fielding-url-syntax-09.txt](#), May 1997. (work in progress).
- [6] R. Denenberg, J. Kunze, D. Lynch, "Uniform Resource Locators for Z39.50," [RFC 2056](#), November 1996.
- [7] J. Veizades, E. Guttman, C. Perkins, S. Kaplan, "Service Location Protocol," [RFC 2165](#), June 1997.
- [8] W. Yeong, T. Howes, S. Kille, "Lightweight Directory Access Protocol", [RFC 1777](#), March 1995.
- [9] T. Berners-Lee, R. Fielding, H. Frystyk, "Hypertext Transfer Protocol -- HTTP/1.0", [RFC 1945](#), May 1996.
- [10] R. Fielding (et.al.), "Hypertext Transfer Protocol -- HTTP/1.1", [RFC 2068](#), January 1997.
- [11] P. Deutsch, R. Schoultz, P. Faltstrom, C. Weider, "Architecture of the WHOIS++ Service", [RFC 1835](#), August 1995.

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- [12] P. Pomes, R. Hedberg, "The CCSO Nameserver (Ph) Architecture", Internet Draft (work in progress), May 1997.

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