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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.

```
            type = wp

            version = 0.0

            language = EN

            description =
            The WP Abstract Service is for locating people via "white pages"
services.

            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        = *( domainlavel "." ) 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"
```

3. The "yp" Abstract Service

To locate resource on the Internet, a client would use the "Yellow Pages" service and version 0.0 of the "yp" abstract service specifies two protocols for accessing such services: Z39.50 and HTTP.

```
            type = yp
```

```
           version = 0.0

           language = EN

           description =
           The yp Abstract Service is for locating resource via "yellow pages"
services.

           url-syntax =
           url-path       = z3950url / httpurl
           z3950url       = url as defined in [6]
           httpurl        = url as defined in [5]
```

4. Security Considerations

The templates presented here are subject to the same implications as other service templates specified according to [2] and [7].

5. Acknowledgments

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6. References

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

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[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-05.txt, May 1997. (work in progress).

[6] R. Denenberg, J. Kunze, D. Lynch, "Uniform Resource Locators for Z39.50," RFC 2056, November 1996.

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