

**The NIS+ Service Type**  
**draft-ietf-srvloc-nisplus-scheme-00.txt**

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Abstract

This document describes the NIS+ service type. NIS+ is a naming service which serves as a repository for UNIX-style system information. This service type can be used to dynamically discover NIS+ servers.

**[1](#). Introduction**

NIS+ is the succeeding iteration of NIS (also known as YP). It stands for "Network Information Service+," and uses [ONC RPC \[1\]](#) as its transport mechanism. This document describes a template providing a service: URL and attributes useful for dynamically discovering NIS+ servers; this type can be used with [SLP \[2\]](#). Service templates and service: schemes are defined in [\[3\]](#).

This type is intended to be used as a concrete portion of the abstract naming-directory type defined in [4]. The NIS+ type includes all attributes from the naming-directory abstract type, and defines two new attributes specific to NIS+ security.

For usage examples, refer to [4].

## 2. The NIS+ Service Type

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Language of service template: en

Security Considerations:

The nisplus service type inherits the security considerations from the naming-directory service type [3]. Additionally, if SLP is used to transport public keys, measures should be taken to insure the integrity of these public keys across the network. One possible measure is to use SLP security, which protects the integrity of SLP payloads.

Template text:

-----template begins here-----  
 template-type=naming-directory:nisplus

template-version=0.0

template-description=

This is a concrete type; the abstract type for this service is naming-directory (described in [4]). This type is used by NIS+ servers to advertise their services and NIS+ clients which wish to discover NIS+ servers.

template-url-syntax=

```
url-path      = "nisplus://" addr "/" directory
addr          = ipv4-addr
directory     = string "." / string "." directory
ipv4-addr     = 1*3DIGIT 3( "." 1*3DIGIT )
string        = ISO Latin 1 character set except the
                character '/' (slash). The initial character
                may not be a terminal character or the
                characters '@' (at), '+' (plus), or ('-')
```

security= string M

# security mechanisms supported by this server  
 none,dh,dh-ext

key= string M

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# the stringified public key(s) and other keying material for  
# this server.

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

#### References:

- [1] Sun Microsystems, Inc., RPC: Remote Procedure Call: Protocol Specification Version 2, [RFC 1057](#) June 1988.
- [2] E. Guttman, C. Perkins, J. Veizades, M. Day. Service Location Protocol. [draft-ietf-svrloc-protocol-v2-10.txt](#), July 1998 (work in progress).
- [3] E. Guttman, C. Perkins, J. Kempf, Service Templates and service: Schemes. [draft-ietf-svrloc-service-scheme-12.txt](#) March, 1998 (work in progress).
- [4] J. Wood, R. Tam, The Naming and Directory Service Abstract Type. [draft-ietf-svrloc-naming-directory-00.txt](#), November 1998 (work in progress).

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