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GSS-API Domain-Based Service Names Mapping for the Kerberos V GSS  
Mechanism  
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Abstract

This document describes the mapping of GSS-API domainname-based service principal names onto Kerberos V principal names.

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## 1. Conventions used in this document

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [[RFC2119](#)].

## 2. Domain-Based Names for the Kerberos V GSS-API Mechanism

In accordance with [[DOMAIN-BASED-NAMES](#)] this document provides the mechanism-specific details needed to implement GSS-API [[RFC2743](#)] domain-based service names with the Kerberos V GSS-API mechanism [[RFC4121](#)].

GSS\_C\_NT\_DOMAINBASED\_SERVICE name are mapped to Kerberos V principal names as follows:

- o the <service> name becomes the first (0th) component of the Kerberos V principal name;
- o the <hostname> becomes the second component of the Kerberos V principal name;
- o the <domain> name becomes the third component of the Kerberos V principal name;
- o the realm of the resulting principal name is that which corresponds to the domain name, treated as a hostname.

The same name canonicalization considerations and methods as used elsewhere in the Kerberos V GSS-API mechanism [[RFC4121](#)] and Kerberos V [[RFC4120](#)] in general apply here.

Implementations SHOULD use a Kerberos V name-type of NT-SRV-HST-DOMAIN (integral value to be assigned, possibly after WGLC?) but MAY use NT-UNKNOWN instead.

### [3.](#) Examples

- o The domain based name, of generic form, "ldap@Example.TLD@ds1.Example.TLD" may map to a Kerberos V principal name like: "ldap/ds1.example.tld/example.tld@EXAMPLE.TLD"
- o The domain based name, of generic form, "kadmin@Example.TLD@kdc1.Example.TLD" may map to a Kerberos V principal name like: "kadmin/kdc1.example.tld/example.tld@EXAMPLE.TLD"

#### [4.](#) Security Considerations

See [[DOMAIN-BASED-NAMES](#)].

#### [5.](#) Normative

[[DOMAIN-BASED-NAMES](#)]

Williams, N., "GSS-API Domain-Based Service Names and Name Type".

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", [BCP 14](#), [RFC 2119](#), March 1997.

[RFC2743] Linn, J., "Generic Security Service Application Program Interface Version 2, Update 1", [RFC 2743](#), January 2000.

- [RFC4120] Neuman, C., Yu, T., Hartman, S., and K. Raeburn, "The Kerberos Network Authentication Service (V5)", [RFC 4120](#), July 2005.
- [RFC4121] Zhu, L., Jaganathan, K., and S. Hartman, "The Kerberos Version 5 Generic Security Service Application Program Interface (GSS-API) Mechanism: Version 2", [RFC 4121](#), July 2005.

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