

**GSS-API Domain-Based Service Names Mapping for the Kerberos V GSS  
Mechanism  
draft-ietf-kitten-krb5-gssapi-domain-based-names-01.txt**

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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 TBD) 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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## Acknowledgment

Funding for the RFC Editor function is currently provided by the Internet Society.

