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Updates: <u>2251</u>, <u>2252</u>, <u>2253</u>, <u>2254</u>,

<u>2255</u>, <u>2256</u>, <u>2829</u>, <u>2830</u>

Lightweight Directory Access Protocol (v3): Technical Specification

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This document expires on 12 July 2001.

Abstract

This document specifies the set of RFCs comprising LDAPv3, and addresses the "IESG Note" attached to RFCs 2251 through 2256.

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1. Background and Motivation

The specification for the Lightweight Directory Access Protocol version 3 (LDAPv3) nominally comprises eight RFCs which were issued in two distinct subsets at separate times -- RFCs 2251 through 2256 first, then RFCs 2829 and 2830 following later.

RFC 2251 through 2256 do not mandate the implementation of any satisfactory authentication mechanisms and hence were published with an "IESG Note" discouraging implementation and deployment of LDAPv3 clients or servers implementing update functionality until a Proposed Standard for mandatory authentication in LDAPv3 is published.

RFC 2829 was subsequently published in answer to the IESG Note.

The purpose of this document is to explicitly specify the set of RFCs comprising LDAPv3, and formally address the IESG Note through explicit inclusion of RFC 2829.

2. 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].

3. Specification of LDAPv3

The Lightweight Directory Access Protocol version 3 (LDAPv3) is specified by this set of nine RFCs:

[RFC2251]	Lightweight Directory Access Protocol (v3) [the specification of the LDAP on-the-wire protocol]
[RFC2252]	Lightweight Directory Access Protocol (v3): Attribute Syntax Definitions
[RFC2253]	Lightweight Directory Access Protocol (v3): UTF-8 String Representation of Distinguished Names
[RFC2254]	The String Representation of LDAP Search Filters
[RFC2255]	The LDAP URL Format
[RFC2256]	A Summary of the X.500(96) User Schema for use with LDAPv3

[RFC2829] Authentication Methods for LDAP

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[RFC2830] Lightweight Directory Access Protocol (v3): Extension for Transport Layer Security

And, this document (RFCxxxx).

The term "LDAPv3" MAY be used to informally refer to the protocol specified by this set of RFCs. The LDAPv3 protocol suite, as defined here, SHOULD be formally identified in other documents by a normative reference to this document.

Other RFCs (and perhaps Internet-Drafts) MAY specify extensions to LDAPv3. Nomenclature denoting such combinations of LDAPv3-plus-extension(s) is not defined by this document, and MAY be defined in some future document(s).

4. Addressing the "IESG Note" in RFCs 2251 through 2256

The IESG approved publishing RFCs 2251 through 2256 with an attendant IESG Note included in each document. The Note begins with..

This document describes a directory access protocol that provides both read and update access. Update access requires secure authentication, but this document does not mandate implementation of any satisfactory authentication mechanisms.

The Note ends with this statement..

Implementors are hereby discouraged from deploying LDAPv3 clients or servers which implement the update functionality, until a Proposed Standard for mandatory authentication in LDAPv3 has been approved and published as an RFC.

[RFC2829] is expressly the "Proposed Standard for mandatory authentication in LDAPv3" called for in the Note. Thus, the IESG Note in [RFC2251], [RFC2252], [RFC2253], [RFC2254], [RFC2255], and [RFC2256] is addressed.

5. Security Considerations

This document does not directly discuss security, although the context of the aforementioned IESG Note is security related, as is the manner in which it is addressed.

Please refer to the referenced documents, especially [RFC2829], [RFC2251], and [RFC2830], for further information concerning LDAPv3 security.

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6. Acknowledgements

The authors thank Patrick Falstrom, Leslie Daigle, and Kurt Zeilenga for their contributions to this document.

7. References

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- [RFC2829] M. Wahl, H. Alvestrand, J. Hodges, R. Morgan. "Authentication Methods for LDAP", <u>RFC 2829</u>, May 2000.
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This document expires on 12 July 2001.

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