

# RFC6101 - The Secure Sockets Layer (SSL) Protocol Version 3.0

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Table 1: Data sheet for The [Secure Sockets Layer \(SSL\)](#) Protocol Version 3.0

Title	The Secure Sockets Layer (SSL) Protocol Version 3.0
Acronym	SSL
Version	3.0
Document Number	RFC6101
Release Date	August 2011
Reference	<a href="https://tools.ietf.org/html/rfc6101">https://tools.ietf.org/html/rfc6101</a>

**Note:** The following is an excerpt from the official IETF RFC. It is provided here as a convenience and is not authoritative. Refer to the original document as the authoritative reference.

## Introduction

The primary [goal](#) of the SSL protocol is to provide privacy and reliability between two communicating [applications](#). The protocol is composed of two layers. At the lowest level, layered on top of some reliable transport protocol (e.g., TCP [RFC0793](#)), is the SSL record protocol. The SSL record protocol is used for encapsulation of various higher level protocols. One such encapsulated protocol, the SSL handshake protocol, allows the [server](#) and [client](#) to authenticate each other and to negotiate an [encryption](#) algorithm and cryptographic [keys](#) before the application protocol transmits or receives its first byte of data. One advantage of SSL is that it is application protocol independent. A higher level protocol can layer on top of the SSL protocol transparently. The SSL protocol provides connection [security](#) that has three basic properties:

- The connection is private. Encryption is used after an initial handshake to define a secret key. Symmetric [cryptography](#) is used for data encryption (e.g., DES, 3DES, RC4).
- The peer's identity can be authenticated using asymmetric, or [public key](#), cryptography (e.g., RSA, DSS).
- The connection is reliable. Message transport includes a message integrity check using a keyed Message [Authentication](#) Code (MAC) [RFC2104]. Secure hash functions (e.g., SHA, MD5) are used for MAC computations.

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