

Stream Control Transmission Protocol (SCTP)

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The **Stream Control Transmission Protocol (SCTP)** is a computer networking communications [protocol](#) in the Transport Layer of the [Internet Protocol Suite](#). Originally intended for Signaling System 7 (SS7) message transport in telecommunication, the [protocol](#) provides the message-oriented feature of the [User Datagram Protocol \(UDP\)](#), while ensuring reliable, in-sequence transport of messages with congestion control like the [Transmission Control Protocol \(TCP\)](#). Unlike UDP and TCP, the protocol provides multi-homing and redundant paths to increase resilience and reliability. SCTP is standardized by the [Internet Engineering Task Force \(IETF\)](#) in [RFC4960 - Stream Control Transmission Protocol](#). The SCTP reference implementation was released as part of FreeBSD version 7, and has since been widely ported to other platforms.

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