



SIP Client Engine

Software Development Kit



For Mobile App Development

Media5 Corporation provides Voice and Video over Wi-Fi or cellular data networks (3G, 4G, and LTE) for Rich and Unified Communication Services (RCS/UC) through its comprehensive and cost-effective M5T Software Development Kits for Mobile App Development. We offer complete, interoperable, secure, and high value SDKs. Our customers can therefore focus on making their applications unique and achieve time to market, without the need for complicated integrations or deep VoIP know-how.

Our solution is compliant with the most stringent international standards. Our protocol stacks support, with the highest quality, multiple communications formats; Voice, Video, Instant Messaging, Presence, and Media Sharing.

M5T SIP Client Engine SDK is a complete C++ SIP Client implementation that handles SIP signaling details and abstracts Media Management, SDP negotiation, and XCAP handling, allowing developers to focus on the user/device interface and management functionality. In addition to mobile application development, the M5T SIP Client Engine SDK can also be easily integrated with any type of SoC to build solutions such as IP-Phones and Voice Gateways.

Key Benefits Telephony and Multimedia

- | | |
|--------------------------|----------------------------|
| Make and Receive Calls | Message Waiting Indicators |
| Caller ID | Emergency Call Handling |
| Anonymous Call Rejection | Video Calls |
| Call Forwarding | HD Voice Calls |
| Call Blocking | Video Conference |
| Call Waiting | Video Streaming |
| Call Hold | Chat / Group Chat |
| Call Transfer | Presence |
| Three-Way Calling | Image and File Sharing |
| Distinctive Alerting | Secure Communications |



Implemented Specifications Overview

RFC3261 - SIP: Session Initiation Protocol

RFC3262 - Reliability of Provisional Responses in the Session Initiation Protocol (SIP)

RFC3263 - Session Initiation Protocol (SIP): Locating SIP Servers

RFC3264 - An Offer/Answer Model with the Session Description Protocol (SDP)

RFC4566 - SDP: Session Description Protocol

RFC6665 - SIP-Specific Event Notification

RFC6157 - IPv6 Transition in the Session Initiation Protocol (SIP)

RFC5626 - Managing Client-Initiated Connections in the Session Initiation Protocol (SIP)

RFC3428 - Session Initiation Protocol (SIP) Extension for Instant Messaging

RFC4975 - The Message Session Relay Protocol (MSRP)

RFC3856 - A Presence Event Package for the Session Initiation Protocol (SIP)

RFC4825 - The Extensible Markup Language (XML) Configuration Access Protocol (XCAP)

RFC6035 - Session Initiation Protocol Event Package for Voice Quality Reporting

RFC5246 - The Transport Layer Security (TLS) Protocol Version 1.2

RFC5245 - Interactive Connectivity Establishment (ICE): A Protocol for Network Address Translator (NAT) Traversal for Offer/Answer Protocols

RFC5389 - Session Traversal Utilities for NAT (STUN)

RFC5766 - Traversal Using Relays around NAT (TURN): Relay Extensions to Session Traversal Utilities for NAT (STUN)

RFC3711 - The Secure Real-time Transport Protocol (SRTP)

3GPP 24.229 - IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP)

3GPP 33.328 - IP Multimedia Subsystem (IMS) media plane security

OMA Presence SIMPLE

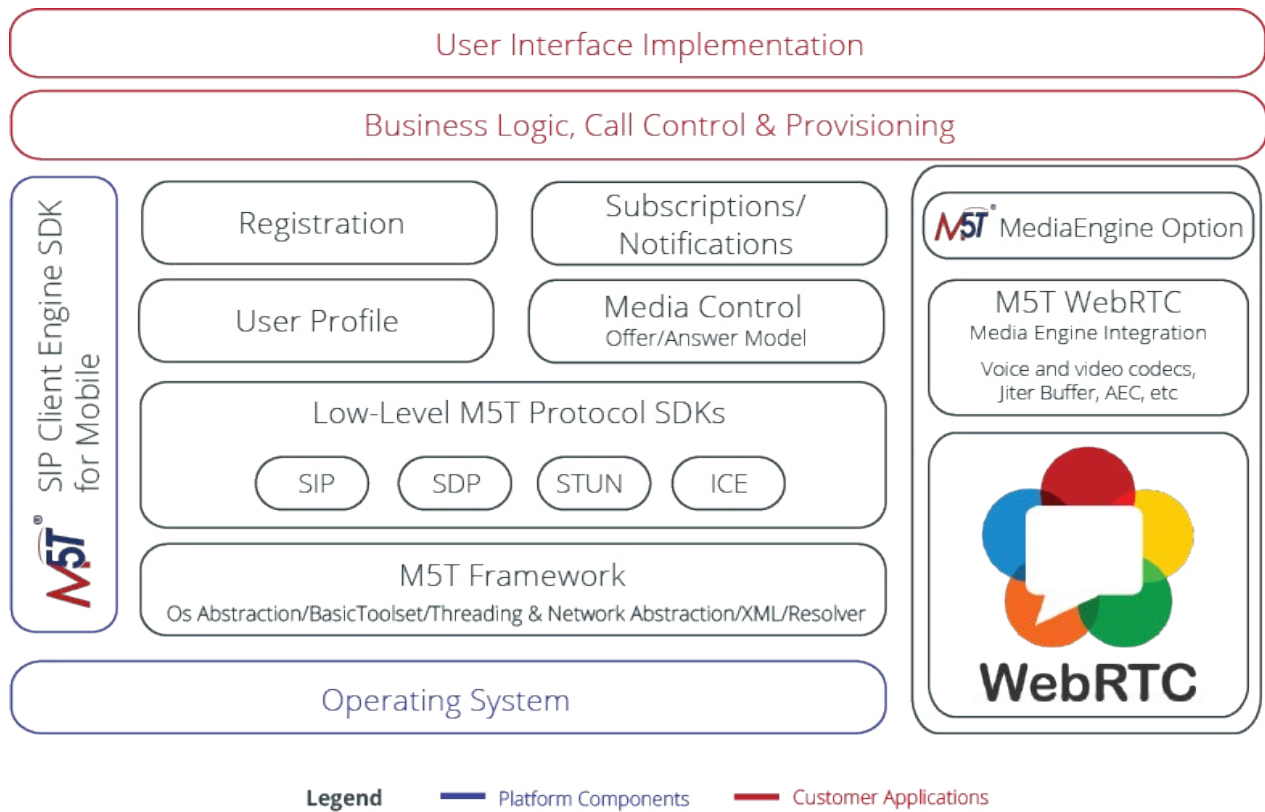
GSMA IR.90 - RCS Interworking Guidelines

GSMA IR.92 - IMS Profile for Voice and SMS

GSMA IR.94 - IMS Profile for Conversational Video Service

GSMA IR.79 - Image Share Interoperability Specification

GSMA IR.74 - Video Share Interoperability Specification



Differentiators

Integrated

M5T SIP Client Engine SDK is an ideal solution for building an over the top (OTT) soft client running on an iOS, Android or WindowsPhone-based smartphone or tablet. The M5T SIP Client Engine SDK takes care of the standards, letting you focus on making your application unique.

Flexible APIs

From a simple SIP Softphone to a more advanced IMS, VoLTE, or RCS solution, M5T SIP Client Engine SDK provides a strong base, portable on current major mobile operating systems, allowing deployment on a broad set of available devices.

MediaEngine

The M5T SIP Client Engine SDK comes with its own fully integrated media engine, based on

the WebRTC project. A well defined interface between the Media Engine and the signaling component also facilitates the use of an alternate Media Engine.

Secure Signalling and Media

Security being an important aspect for communications, M5T SIP Client Engine SDK supports TLS 1.2, Security Descriptions or MIKEY key negotiation, and SRTP easing deployment in corporate networks.

IETF, IMS, RCS, VoLTE, and PacketCable

The M5T SDKs are deployed in a wide range of networking scenarios, whether it is for custom-based, IETF-based or IMS-based telecommunications networks. Several options of run-time and compile-time configuration parameters are also available.



A Trusted Technology Provider

The M5TSDKs, developed by Media5 Corporation, are deployed in millions of devices worldwide. They are used for SIP Client products by many major telecom equipment manufacturers (Mitel, Unify, Alcatel-Lucent Enterprise, Vtech, ShoreTel, Avaya, and Technicolor).

Moreover, Media5 also licenses its SIP SDKs to other markets such as telemedicine, defense systems integrators, and telecom provider for the hospitality market.

Media5 has successfully established itself as the premium SIP technology provider. The quality of its technology, its team of highly-skilled developers, and the quality of the support offered to its customers are what makes Media5 a key player in the industry.

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