



# SIP Client Engine

## Software Development Kits



The **M5T SIP Client Engine SDK (SCE)** is the most comprehensive and interoperable solution for creating SIP enabled VoIP applications on the market.

The **M5T SCE** offers a complete integration between advanced signaling functionalities and media engine options with no need of additional components to enable voice services into IP-Phones, VoIP gateways, IP-PBXs, ATAs, digital phone adapters, routers, modems, etc.

- ✓ In-house software development, Media5 owns full IPR on its core software
- ✓ Comprehensive and tailored solutions to speed up time-to-market
- ✓ Compliant with several ecosystems such as IMS, IETF, PacketCable 2.0, etc
- ✓ Portable codebase on major operating systems/platforms
- ✓ Flexible solutions to address complex needs of different market verticals
- ✓ Excellence in support and customer satisfaction with direct access to the highly-skilled development team

## Key Benefits

- ✓ RFC 3261, 3262, 3263, 3264, 3265 series (Many additional RFCs and standards are supported. Contact Media5 for the complete list.)
- ✓ IMS 24.229 and other relevant IMS specifications
- ✓ GSMA IR.92 and other relevant GSMA specifications
- ✓ Multi-line/multi-user
- ✓ High-Level Components:
  - Per user/line configuration component
  - Registration
  - Call/Media Session
  - Generic Subscriber (any event)
  - Generic Notifier (any event)
  - Message waiting indication (specialised subscriber)
  - Generic Publisher (any event)
  - Unsolicited notify handler
  - Out-of-dialog request sender
- ✓ IPv4 / IPv6
- ✓ UDP / TCP / TLS
- ✓ DNS A, AAAA, SRV and NAPTR
- ✓ "sip", "sips", "tel", "pres" and "im" URI schemes
- ✓ ENUM resolution of "tel" URIs
- ✓ SIP extensions for GRUU, Service-Route, Privacy, Asserted Identity, UA Capabilities and Caller Preference
- ✓ Extensibility:
  - Generic request sending by application
  - Generic request handling by application
  - Packet observer mechanism to see incoming and outgoing packets
  - Ability to modify outgoing packets per call or component
  - Access to low level SIP "context" and services

## Differentiators

### Single Code Base

The M5TSCE SDK offers a single multi-platform and multi-OS code base that can be deployed for any project. It supports Windows, Linux, iOS, Android, and other operating systems. It also supports Intel, PPC, MIPS, and ARM-based platforms. This increases the developer's productivity by offering universal SIP stack implementations.

### Extensible

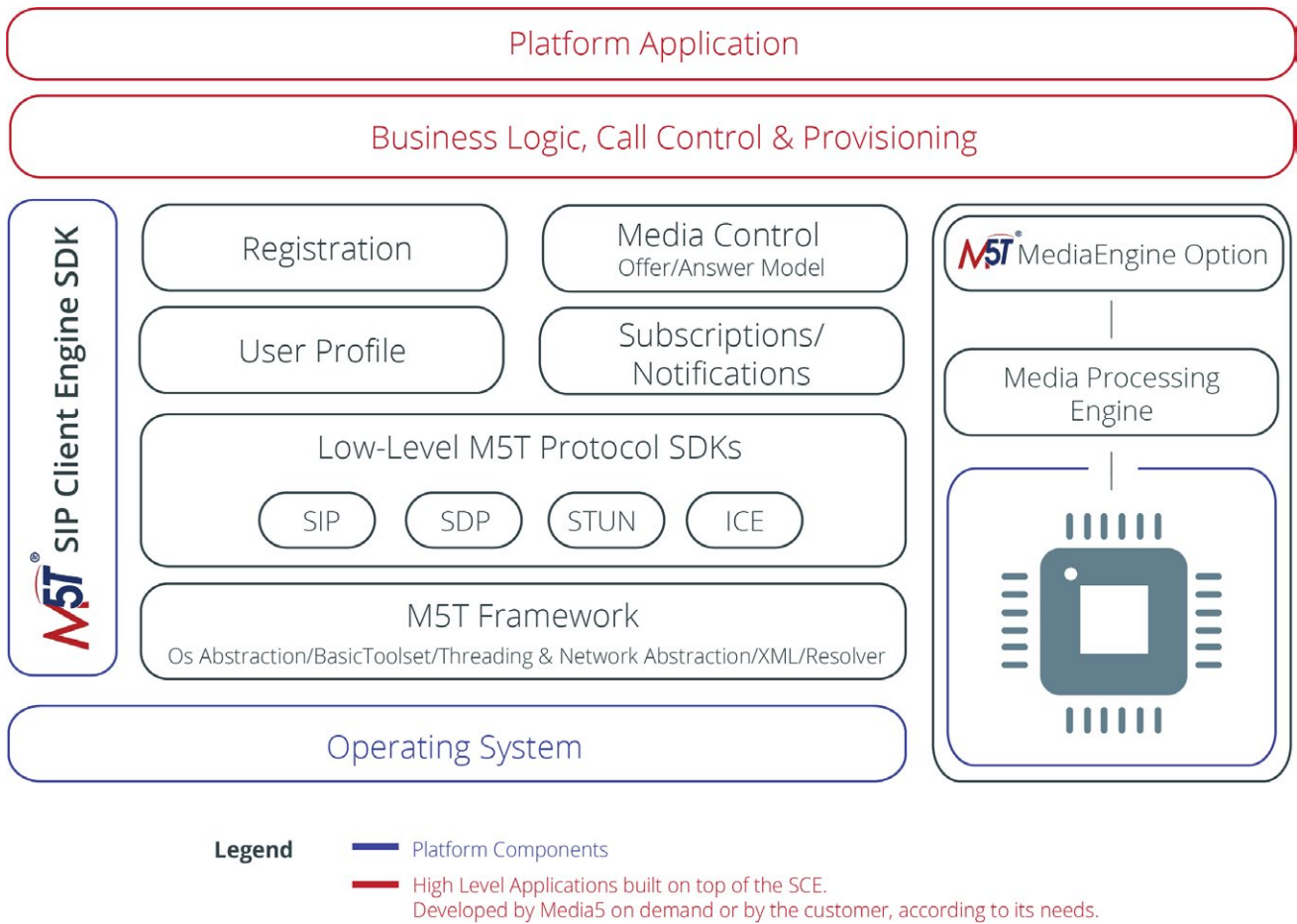
The SCE and its options offer high level APIs allowing for quick application development while still allowing full control on signaling and media operations via well documented lower level extension APIs. Additional options can also be licensed to speed-up your development.

### IETF, IMS, RCS, VoLTE, PacketCable

The SCE is deployed in a wide range of networking scenarios, whether it is for custom-based, IETF-based or IMS-based telecommunication networks. The SCE offers many run-time and compile-time configuration parameters that allow your solutions to be deployed in any SIP based environment.

### SoC and Media Engine Options

Customers can choose to license either the SCE Media Engine Option, which includes a fully integrated software based media engine, or one of the readily available SoC-oriented media engines for DSP Group, Intel Puma, Marvel Armada, etc.



## More Advantages



### QUICK TIME-TO-MARKET

The M5T SCE offers a complete range of functionalities and stacks easily configured for field deployment. We also count on our engineering experts' knowledge to provide additional support for meeting specific requirements.

This way, developers and vendors can deliver their applications on-time and within specifications.



### COST SAVING

The M5T SCE is a cost effective solution when compared with building an in-house implementation.

Our team expertise in SIP, SDP, PacketCable, and IMS technologies allows customers to focus on their core competencies and time-to-market.



### EASY IMPLEMENTATION

With M5T SCE, customers are not required to get involved in the technical details of voice and video implementation or the associated customisations done for several service providers.

Along with the M5T SCE, Media5 offers customisation, pre-certification, and test services.



### REDUCED RISK

Our software is proven interoperable with major telecom manufactures, softswitch/IMS vendors and has been deployed in millions of devices worldwide due its compatibility with the stringent international standards.

It is also highly flexible and secure to offer scalability and reliability.



## What is Included

Licensing the **M5T SCE SDK** to develop VoIP enabled embedded, mobile and/or desktop applications will provide ODMs/OEMs with the following:

- ✓ Full C++ source code
- ✓ Sample application
- ✓ Comprehensive API reference documents
- ✓ Programmers' Guide
- ✓ Media Engine integration source code and/or Media Engine SoC integration
- ✓ M5T Make – cross platform build tool

 **A Trusted Technology Provider**

The M5T SIP-UA and M5T SIP Client Engine SDKs, developed by Media5, 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 providers 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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