



PacketCable™ 2.0 E-DVA SDK



SIP integration into SoC SDK

The **M5T® Euro/PacketCable™ 2.0 E-DVA SDK** (M5T E-DVA Software Development Kit) for SoC is a complete SIP and voice application for an Embedded Digital Voice Adaptor (E-DVA). The M5T E-DVA SDK integrates into the SoC's SDK to offer the management of SIP signaling and voice related MIB variables and implements the necessary state machine to manage analog telephone/fax lines attached to an EPON ONU.

The M5T E-DVA SDK is a cost effective solution when compared with building an in-house E-DVA solution. Media5 has already made the investment to develop the expertise in SIP, SDP, PacketCable, and IMS technologies so our customers can focus on their core competencies. Media5 has furthermore invested many efforts to customise the E-DVA solution to the different requirements from the top MSOs.

The M5T E-DVA SDK customers do not have to get involved in the technical details of a PacketCable voice implementation or the associated customisations done for the different MSOs. Along with the M5T E-DVA SDK, Media5 offers customisation, pre-certification and test services. Media5 can help customers with the PacketCable E-DVA pre-certification on the customer devices, or help with sanity testing of the end product on a specific MSO network.

Differentiators



Extensible

The modular architecture of the E-DVA SDK allows for MSO customisation to be added on top of the standard PacketCable 2.0 application, allowing a fast and easy way to fulfill MSO specific requirements that go beyond PC2.0 specification.

Integrated

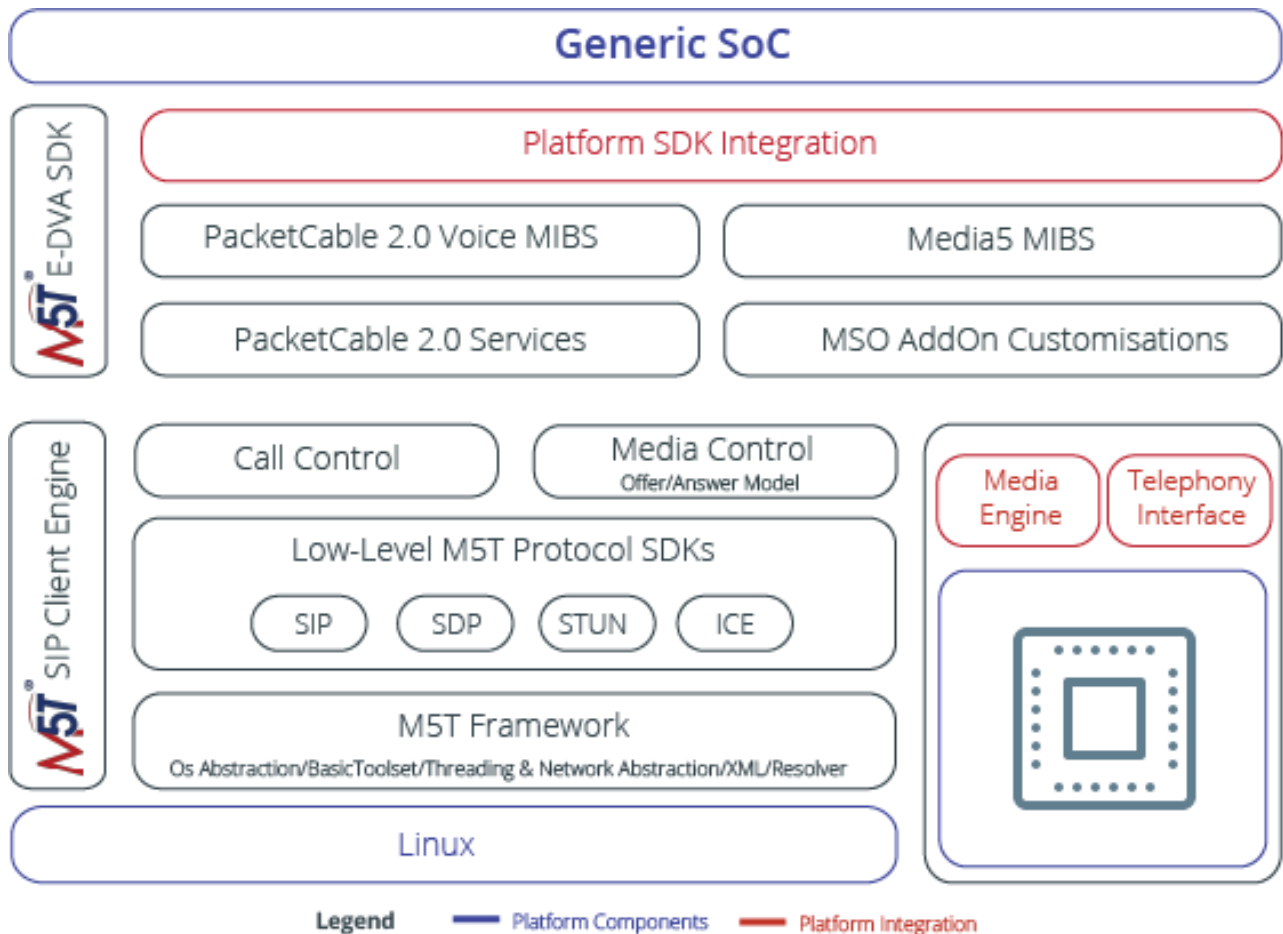
The M5T E-DVA SDK has been specifically designed for ODM/OEMs that develop and market voice-enabled cable modems based on SoC. This allows accelerated development and rapid release of new Residential SIP Telephony EPON ONU products, while also permitting upgrades of existing products based on earlier PacketCable specifications.

Flexible

Built on top of the M5T SIP Client Engine, the E-DVA SDK can be configured to reuse all underlying features and configurations, addressing many flavors of SIP and IMS environments and not limiting its usage to pure PacketCable 2.0 based networks.

Key Benefits

- ✓ Off-the-shelf Euro/PacketCable 2.0 implementation, ready to be certified;
- ✓ Easy upgrade path for deployed devices from PacketCable 1.5 SIP E-MTA to 2.0 E-DVA;
- ✓ Flexible SIP implementation allowing easy SIP voice integration in PacketCable 1.5 networks;
- ✓ Implements E-DVA telephony state machine for management of analog phones and faxes;
- ✓ Integrates into PacketCable 2.0 basic, secure and hybrid provisioning flows;
- ✓ Ready for customisation to support the top North American and European MSOs;
- ✓ DECT phones management with CAT-iq and HD Voice support through selected DECT chipset provider;
- ✓ All standard PacketCable 2.0 E-DVA MIBs are implemented;
- ✓ Implements Residential SIP Telephony Features (RSTF) specification that defines the common residential telephony features;
- ✓ Proven SIP & IMS-based technology: Reuses the widely deployed M5T SIP Client Engine and M5T SIP stack;
- ✓ Technology deployed in millions of cable modems worldwide.



Implemented CableLabs Specifications

- ✓ PKT-SP-RSTF – Residential SIP Telephony Feature Specification
- ✓ PKT-SP-RST-E-DVA – Residential SIP Telephony E-DVA Specification
- ✓ CEL-SP-PKT2.0-EDVA - EuroPacketCable 2.0 EDVA Specification
- ✓ PKT-SP-24.229 – IMS Delta Specification
- ✓ PKT-SP-CODEC-MEDIA – Codec and Media Specification
- ✓ PKT-SP-EUE-DATA – E-UE Provisioning Data Model
- ✓ PKT-SP-EUE-PROV – E-UE Provisioning Framework
- ✓ PKT-SP-RST-EUE-PROV – RST E-UE Provisioning Specification
- ✓ PKT-SP-DECT-HDV – High Definition Voice with DECT

- ✓ PKT-SP-DECT-PROV – DECT Provisioning Specification
- ✓ PKT-SP-DECT-SIP – DECT SIP Specification

Implemented IETF Specifications

All RFCs required for PacketCable™ 2.0, such as:

- ✓ RFC 3261 to 3265 – Core SIP RFCs
- ✓ RFC 3455 – SIP P-Headers for IMS
- ✓ RFC 3608 – SIP Service-Route Discovery
- ✓ RFC 3959 – SIP Early Session Disposition
- ✓ RFC 4538 – SIP Target-Dialog
- ✓ RFC 5627 – Obtaining GRUUs

Contact us to access the currently available MSO customisation list.



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.

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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