

vt-sdk

<t-sdk-r4

Release Notes

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1 INTRODUCTION

<t-sdk is the Software Development Kit for developing software for the <t-base Trusted Execution Environment.

<t-sdk includes header files, libraries, documentation and tools for developing:

- ◀ Trusted Applications running in the Trusted Execution Environment.
- ◀ Client Applications using the Trusted Applications.

Developers should refer to the following documents contained in this SDK for details on development and tools:

- ◀ **<t-sdk Developer Guide:** this document introduces the basics for developing for <t-base, the design principles and best practices. It also lists the tools and the environment required for the development.
- ◀ **<t-base API Documentation:** this document specifies the <t-base API for developing the Trusted and Client Applications.
- ◀ **<t-sdk Getting Starting:** this document details how to use the <t-base emulator and Arndale boards for testing Trusted and Client Applications.

2 WHAT'S NEW?

2.1 <T-SDK-R4

This is the new SDK for <t-base-200, <t-base-201 and <t-base-202.

It is based on <t-base-202 with RootPA 2.0039.

This SDK supports the <t-base API Level 2.

Here are the new features supported by the r4 version:

- < packages have been improved to enhance developer experience:
 - < <t-sdk-qemu now contains run_qemu.sh and adb_qemu.sh scripts for respectively launching QEMU and connecting to the Emulator via ADB
 - < QEMU and Arndale now automatically load <t-base Driver and launches <t-base Daemon
- < DS5 Debug Agent is now available for debugging Trusted Applications under DS5 environment -> trustlet -> Trusted Application (for Arndale only)
- < New QEMU (based on Linaro 13.05)
- < Added TlcInfo (command line) and TBaseInfo (graphical) tools to retrieve the <t-base versions
- < CmTI and Root-PA components added to <t-sdk package for testing of TL installation together with a TSM
- < Added new Android sample, TSdkSample to illustrate how to use the Jni to call the Trusted Applications
- < GCC is now the default toolchain to build the Trusted Applications
- < This version adds header files and libraries required to compile Client Applications for Windows 8 platforms.

2.2 <T-SDK-R3

This is the new SDK for <t-base-200 and <t-base-201.

This SDK supports the <t-base API Level 2.

This version of the SDK comes with the <t-base emulator for Qemu.

Here are the new features supported by the R3 version:

- < Added support for the GCC Linaro toolchain to build the Trustlets
- < Microsoft Windows with MinGW environment can be used to build the Trustlets and Trustlet connectors.

2.3 <T-SDK-R2

This is the new SDK for <t-base-200.

This SDK supports the <t-base API Level 2.

This version of the SDK comes with the <t-base emulator for Qemu.

Here are the new features supported by the R2 version:

- < Added new functions: mcOpenTrustlet(), tlApiGetVirtMemType(), tlApiIsNwdBufferValid()
- < mcOpenSession(), mcMallocWsm(), mcFreeWsm() functions are deprecated
- < Added AES, RSA and ROT13 samples to package
- < Added QEMU and Arndale images to package
- < 16 ready to use preinstalled containers in the Android File System to be used for testing with Service Provider trustlets

2.4 <T-SDK-R1

This is the first version of the SDK for <t-base supporting the <t-base API Level 1.

This document specifies the API for developing Trustlets and Trustlet Connector:

Here are the new features supported by the R1 version:

- < Applied Trustonic branding
- < Updated Application Developers Guide