MULTOS Type Approval Services

MULTOS

MULTOS is a Smart Card Operating System widely used in today's financial industry. In fact, due to its higher security standard (through its architecture, design, key management architecture, and type approval process), it is regarded as the most secure Smart Card Operating System currently in the market.

In order to maintain this high security standard, MULTOS has a series of well-designed Type Approval (TA) procedures that must be complied to before a chip designer / vendor can mass produce their MULTOS products.

The mandatory, rigorous Type Approval process of MULTOS ensures unparalleled interoperability between platforms from different Operating System (OS) implementers. MULTOS is developed by the members of The MULTOS Consortium.

Smooth Certification

Vendors need to pass Post-mask Type Approval Services prior to the distribution of their products in the field. We have been appointed by MAOSCO Limited, the consortium company, as an approved provider of MULTOS Interoperability Testing Type Approval Services. We have been appointed by MAOSCO as an approved MULTOS Interoperability Testing Type Approval Service Provider worldwide.\

We provide both Pre-mask and Post-mask Type Approval Services. Our consulting services are related to the investigation of issues identified by the execution of the Interoperability Testing.

Furthermore, we provides consulting services in relation to the enhancement of the interoperability testing platform to support a particular implementation.

Multos Type Approval Services

- **MULTOS Type Approval Service Provider world wide**
- **All Multos specifications embedded in Collis Multos ITP**
- **Ensure interoperability**
- **Fast and smooth certification**
- **Pre-Masking & Post-Masking Type Approval**

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"UL TS reflects the high standards of quality expected of MULTOS products. Their Conclusion Test Platform was the obvious choice when we needed to implement our extensive MULTOS interoperability test suite on a proven platform.

Their consultants expertise and knowledge of smart card testing ensures that the MULTOS Type Approval process is delivered in the most timely and cost-effective manner.

MAOSCO is delighted to have worked with UL TS on this important project."

Alan Johnson
Technical Director
The MULTOS Consortium

MULTOS ITP

MULTOS is the high security, multi-application operating system for smart cards. MULTOS Interoperability Testing Platform has been designed to enable Consortium Members to perform efficient type approval pre-testing of their implementations, speeding up the development process and shortening time-to-market. Collis MULTOS ITP supports testing of both MULTOS and MULTOS step/one.

Pre & Post Masking

The best way to ensure quality and interoperability is to test the result in every stage. Therefore, there are two Type Approvals for the two stages of chip development: pre-mask and post-mask. The word 'mask' implies making the chip (hardware) from a program (software).

Pre-mask refers to the stage where no actual IC chip is available (all the chip functions are provided through an emulator).

Post-mask refers to the stage where IC chips have been manufactured and actual samples may be tested.

Contact

For sales enquiries, please contact info@ul-ts.com or go to www.ul-ts.com

Type Approval Services

We offer the following Type Approval services:

• Implementation of the test suite according to MULTOS Type Approval testing specifications.

• Pre-mask Type Approval testing service for the manufacturer / implementer. In other words, UL TS performs the MITP tests on prototypes of the card (soft-mask) or on an emulator and produces a test report based on the results.

• UL TS also performs post-mask testing of a MULTOS card implementation. When requested by MAOSCO to perform this task, we utilise its MULTOS ITP and tests against the implementation.