Through the acquisitions of RFI Global in 2010 and Witham Laboratories and Collis in 2012, UL is uniquely positioned as the world’s number one competence center in transaction security technology. UL acts as your independent, trusted partner for end-to-end transaction security services for the mobile, payment, e-Ticketing and ID management sectors on a global scale.

ULºs comprehensive transaction security service line provides advisory services, expert training courses, test tools and simulators, test and certification services and security evaluation services. Our thought leadership, close involvement with leading industry bodies and extensive experience enables us to keep up with the rapid pace of transaction innovation for years to come.
Ensuring interoperability and Compliance

• Offering Collis and Aspects portfolio of over 80 test tools and simulators.

• Accredited and qualified tools by major payment schemes (Visa, MasterCard, JCB, Diner’s, Discover, Interac, American Express) and industry bodies (PTCRB, GCF, GlobalPlatform, EMVCo).

• High quality test tools to speed up your testing and certification procedures.

• Unique combination of tools, simulators and test suites to suit a broad range of testing abilities.

• Innovative tools outweighing any other available products on the market today.

• Providing state-of-the-art functional test tools is essential to prepare for mandatory formal certifications.

• A strong team of knowledgeable experts is continuously working on the development of existing and new tools, allowing us to maintain high standards and quality.
Our services and solutions

YOUR BENEFITS

Working together towards security and interoperability

Advisory services
Being the leading knowledge partner in major innovative technology projects means we understand industry developments and how this may affect your business. Linking the physical world to the virtual world and guiding you through the transaction security process from start to finish.

Endorsed training courses
Our training courses are endorsed by payment schemes and address the latest business and technical best practices, gained from leading turn-key projects worldwide.

State-of-the-art test tools
UL offers state-of-the-art test tools and simulators through the Collis and Aspects portfolio of tools. The Collis and Aspects test tools are accredited by the leading payment schemes and industry bodies and ensure your test processes are simple and efficient.

Proven test and certification services
Your products and systems need to comply with industry standards and protocols. Our test centers are certified and accredited to evaluate, execute and manage certifications according to various protocols and mandates. We ensure compliance with specifications so that you can launch your systems and products with confidence.

Security evaluation
Providing confidence in your products by ensuring they conform to the latest state-of-the-art industry security implementation guidelines.
End-to-end transaction security

Services
The world of smart cards and terminals is complex and regulated. What standards are involved? What mandates should you look out for? How can you ensure you pass the right test at the right time?

Our test centers are equipped to guide you through the test process to get the necessary approvals for a successful market launch of your products and systems.

Guiding you towards an efficient chip infrastructure

Professional EMV test tools are an absolute necessity in EMV issuing, acquiring and certification projects. Through the Collis portfolio, UL provides a range of contact/contactless card & POS, ATM, NFC and host test tools. These test tools will guide you towards a smooth, efficient and trouble-free go-live of your chip infrastructure.

• Issuing Test Tools
  Providing a range of tools that ensure compliance with industry standards of issuer defined personalization profiles on payments cards and issuing host infrastructures.

• Acquiring Test Tools
  Ensure quality and functionality of your contact/contactless payments terminals by testing them with the Collis range of acquiring test tools.

• Processing Test Tools
  These tools enable you to test worldwide interoperability of systems so that transactions can be processed correctly.

• Certification Test Tools
  The range of accredited, state-of-the-art certification test suites ensure your product complies with the latest standards.

• Hardware
  We have a wide range of dedicated tools and hardware devices available that enable testing of various applications for smart cards, electronic identification systems, terminals and more.

Payment Test Tools
PORTFOLIO FOR ISSUERS, ACQUIRERS, PROCESSORS
Collis EMV Personalization Validation Tool (Collis EMV PVT)
Explores the content and verifies the personalization of an EMV contact/contactless card or handset (MasterCard CPV, Visa GPR, Discover D-PAS).

Collis Card Spy
Monitors the communication between a smart card and payment terminals (contact and contactless).

Collis Card Simulator
Simulates all functions of a payment smart card.

Collis Card Image Editor
Comprehensive software to edit EMV contact card data. Includes the functionalities Editor, Wizard, Navigator and File Map Editor.

Collis Host Test Tool
Tests the vital links in the payment infrastructure chain.

Collis EMVCo EMV Level 2 Test Suite
Collis EMVCo CPA/CCD Test Suite
Collis MasterCard Mobile PayPass/M/Chip (Advance) Test Suite
Collis Visa VSDC/VCPS/MVCPS Test Suite
Collis ISO 7816 Test Suite
Collis ISO 14443 Test Suite
GlobalPlatform Basic Financial Configuration Test Suite
Collis EMV AAuI Test Suite

Collis SmartLink Box
Collis SmartWave Box
Collis Light & Sound Detector
Collis ATM Probe
Collis SCM Contact and Contactless Reader
Magtek Intellistrip 350 Reader
Offering security evaluation services that are endorsed by recognized regulators and certification bodies, such as EMVCo and PCI, as well as payment schemes, American Express, Discover Financial Services, MasterCard and Visa, and UK CESG.

Mobile Test Tools
PORTFOLIO FOR HANDSET & CARD VENDORS, MNOS AND TSM IMPLEMENTATIONS

Testing your products and systems in a stable environment

Supporting MNOs and Service Providers in executing Trusted Service Manager (TSM) and NFC/contactless services, as well as providing handset and SIM vendors with quality test tools that ensure interoperability. Our test tools use flexible Java APIs that take testing beyond standards conformance.

• Card Testing
The range of card test tools support all current SAT and USAT commands and GlobalPlatform and core SIM/USIM functionality for thorough Toolkit applications.

• Handset Testing
The Collis and Aspects test tools simulate SIM or USIMs and provide the essential stable environment to test a handset’s behavior, including Toolkit.

• Test Suites
The Collis and Aspects test suites are an efficient way of validating a card or mobile handset against the relevant 3GPP/ETSI/GlobalPlatform/ISO specification.

• NFC/TSM
Our complete offering of TSM and NFC test tools are the ideal choice in ensuring quality and interoperability of your TSM environment.

• Spying & Monitoring
Understanding and translating the communication between handset and contactless terminal or NFC tag is vital for efficient debugging and problem solving. Bits and bytes are translated into English and displayed in an easy-to-read format. These tools support end-to-end NFC communication, SWP and OTA protocols including CAT-TP and RAM over HTTPS.

• Hardware
Providing a wide range of dedicated hardware devices that enable testing of various applications for smart cards, electronic identification systems, terminals and more.

UL Transaction Security
Test Tools for Card Vendors

Aspects Spy
Translates and visualizes communication between handsets and SIM/UICC cards and contactless readers.

Aspects Card Test Platform
A scripting environment for testing the UICC including a rich Java API for GSM, 3G and GlobalPlatform commands and procedures.

Aspects Card Profile Tester
Allows you to compare a real (U)SIM profile against a pre-defined profile.

Collis NFC Handset Test Bench
Provides a controlled NFC test environment for handsets.

Aspects Spy
Translates and visualizes communication between handsets and SIM/UICC cards and contactless readers.

Collis GlobalPlatform Messaging
Test a TSM’s ability to correctly process all required Global Platform messages.

Collis TSM Load & Performance
Generates peak loads and high volume transactions of high-volume requests from SPs to the TSM.

TSM Simulators
We have a range of simulators that simulate various components within the TSM infrastructure.

Test Tools for NFC/TSM implementations

Test Tools for Handset Vendors

Aspects Spy
Translates and visualizes communication between handsets and SIM/USIM cards or contactless readers.

Aspects Handset Platform
Simulates a UICC, together with the Aspects SmartStation3, it becomes a flexible and powerful platform for testing a mobile phone handset.

Aspects Handset SAT Test Tool
Quickly and efficiently tests a mobile phone’s SAT behavior.

Aspects USAT Conformance Test Platform (Verify2 31.124)

Test Suites for Card and Handset Vendors

Collis GlobalPlatform UICC Configuration Test Suite
Collis GlobalPlatform UICC Contactless Extension Test Suite
Collis ISO 14443 Test Suite
Collis Card SWP/HCI Test Suite
Collis Handset SWP/HCI Test Suite
Aspects USAT (Verify2 1.124)
Aspects Handset SAT
Collis MasterCard Mobile PayPass Test Suite
Collis Visa VMCPS Test Suite
Aspects Card 3G
Aspects Card GSM
EMV AAU1 Test Suite

Hardware

Aspects SmartStation3
Collis SmartLink Box
Collis SmartWave Box
Collis SCM Contact and Contactless Reader
Micropross hardware
e-Ticketing Tools
PORTFOLIO FOR PUBLIC TRANSPORT OPERATORS, CARD AND TERMINAL VENDORS

Thorough and professional testing to reach certification

The Collis test tool portfolio of quality test tools related to (public) transport, include test tools for Automated Fare Collection (AFC) Systems. We support businesses with adhering to the standards and specifications through in-depth, high quality testing.

• AFC Card Testing
With these test tools, all communication to and from the AFC card under test is automatically logged, interpreted and checked.

• AFC Device Testing
Collis test tools for AFC device testing will help you determine whether your devices are ready for implementation in a live environment.

• AFC Transaction Testing
The Collis AFC Transaction Generator is capable of generating approximately three million transactions in 24 hours with a simple click of a button.

• Hardware
Providing a wide range of dedicated hardware devices that enable testing of various applications for smart cards, electronic identification systems, terminals and more.

UL Transaction Security
Collis AFC Personalization Validation Tool
Performs checking of card personalization settings customized to the AFC systems of PTOs.

Collis AFC Card Reader/Writer Tool
Enables reading and writing of card images customized to the AFC systems of PTOs.

Collis Card Spy
Monitors the communication between an AFC card and terminal (contact and contactless).

Collis AFC File Validation Tool
Tests the correctness of transaction logs between travel cards and device.

Collis AFC Card Simulator
Simulates all functions of a travel card.

Collis AFC SAM Simulator
Generates any Secure Access Modules (SAM) response.

Collis AFC Automated Test Environment
Enables testing of an AFC device in its environment of use.

Collis AFC EOD Product Manager
Automates management of EOD.

Collis AFC Device Performance Test Tool
Enables testing and analyzing of the performance of an AFC device.

Collis SmartLink Box
Collis SmartWave Box
Collis SCM Contact and Contactless Reader

Test Tools for AFC Card Testing

Test Tools for AFC Device Testing

Test Tools for AFC Transaction Testing

Collis AFC Automated Test Environment
Enables testing of an AFC device in its environment of use.

Collis AFC Transaction Generator
Allows the user to generate transactions to test an AFC infrastructures. Capable of generating approximately three million transactions in 24 hours with a simple click of a button.

Hardware
The virtual, digital world is becoming part of our public space. Accessing information online increases the need for personal identification. Identification, authentication and authorization are of major importance in the digital world.

The Collis test tool portfolio is essential for testing whether electronic documents in the public space are secure and interoperable, so they can be integrated with back office systems and registers to build complete schemes.

ID Management Tools
E-IDENTIFICATION TEST TOOLS

Assuring reliability

The Collis test tool portfolio for ID Management consists of high quality e-ID test tools for card issuers, personalisers and test labs. These test tools are developed to improve your card issuing process in terms of quality, speed and reliability. The Collis e-ID test tools are highly automated and easy-to-use, to ensure you receive the most reliable support.

- ePassport Test Tools
  Standardized, highly automated testing tools for ePassport conformance validation.
- eHealth Test Tools
  We developed a set of highly automated eGK card and terminal testing tools, which greatly improves the card issuing process in terms of quality, speed and reliability.
- Tachograph Test Tools
  In order to test the digital Tachograph card application and Tachograph card personalization, we developed a professional set of Digital Tachograph Test Tools.
- eDriving License Test Tools
  Collis Test Tools ensure that electronic identification and authentication solutions will be made reliable and fully compliant with industry standards.
- Hardware
  Providing a wide range of dedicated hardware devices that enable testing of various applications for smart cards, electronic identification systems, terminals and more.
Border Control & Immigration Tools

- Collis eMRTD Test Tool
  Explores and interprets the content of an ePassport image and validates the compliance.
- Collis eMRTD Test Tool for Production
  Performs a check on a sample ePassport.
- Collis Inspection System Test Tool
  For complete compliance and interoperability in an inspection system and spy mode.

EU Tachograph Test Tools

- Collis Tachograph Functional Testing Tool
  Covers functional type approval of all cards.
- Collis Tachograph Card Personalization Validation Tool
  Validates the personalization of all cards.
- Collis Tachograph Helpdesk Tool
  Troubleshooting and inspection of Tachograph cards.
- Collis Tachograph Card Simulator
  Simulates all functions of a Tachograph card.

eDriving License Tools

- eDriving License Test Tool
  Explores and interprets the content of an eDL image and validates the compliance.

Test Suites

- Collis SAC 2 Test Suite
- Collis EAC Test Suite
- Collis ICAO Test Suite
- eMRTD Profile Generator
- eMRTD Inspection System Test Suite
- eMRTD Simulator Test Suite

Hardware

- Collis SmartLink Box
- Collis SmartWave Box
- Collis SCM Contact and Contactless Reader
Carrying out high quality testing

COLLIS TEST MANAGER

A smarter system

Collis Test Manager (CTM) is a state-of-the-art tool that enables you to carry out the high quality testing your organization needs and demands.

The beauty of CTM is that it is involved in test execution, and can also be used in the design and setup of the tests. This means that CTM is not specifically designed to only be used by test engineers and test script developers, it is also an exceptional tool for test managers, test coordinators and test analysts. It is a system designed with the entire ‘test family’ in mind!

With CTM you can save time on a variety of operations such as test specifications, scripting, test environment control, script execution (running time, scenarios, conditional execution, planning, scheduling), status and progress examination, result analysis (report analysis) and report generation.

CTM is an all-in-one test management tool that will guide you through your testing in a timely manner, resulting in quality testing in a cost and time efficient way.
Ensuring reliable Solutions
Global Contacts

Europe

Basingstoke, UK
P: +44 125 631 2000

Edinburgh, UK
P: +44 131 225 9500

Helsinki, Finland
P: +31 71 581 3636

Leiden, The Netherlands
P: +31 71 581 3636

North America

Bloomington, USA
P: +1 855 730 9827

Latin America

São Paulo, Brazil
P: +31 71 581 3636

Middle East & Africa

Dubai, United Arab Emirates
P: +971 50 674 2380

Asia

Singapore
P: +65 68 90 6440

Guangzhou, China
P: +86 847 209 2945

Hong Kong
P: +852 6050 9972

Pacific

Melbourne, Australia
P: +61 3 9846 2751

Auckland, New Zealand
P: +64 9 414 9587

E: info@ul-ts.com / W: www.ul-ts.com

UL and the UL logo are trademarks of UL LLC © 2012