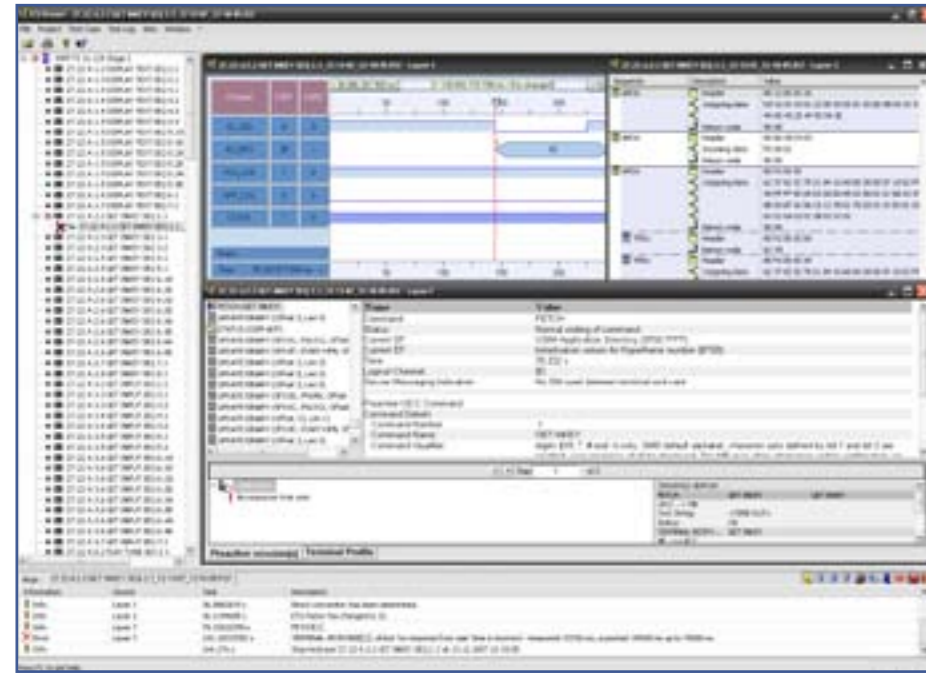


To Deliver Quality – Use Quality

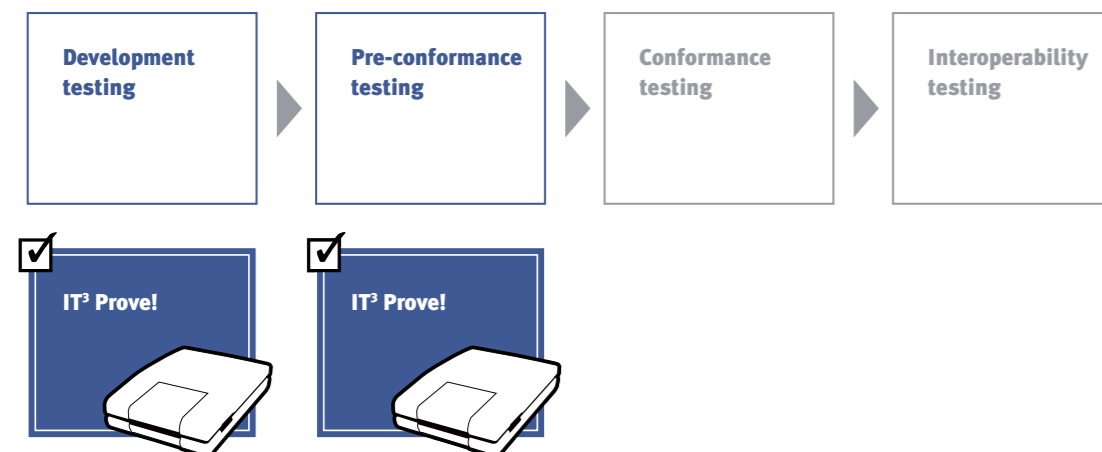
To deliver the highest quality products, you need the highest quality tools. Developers and testers need a powerful yet flexible testing tool as they create the cutting-edge products of tomorrow. They need one tool that does it all. A testing tool that comes with all the standard tests ready to run, yet can easily be customised to run specific tests and measurements unique to their business and technology needs.

IT³ Prove! is that tool. It is the premier product for supporting the development and pre-conformance testing of the handset's (U)SIM interface. Covering all the standards and technologies in a single portable device, it saves time and frees your engineers to think about pushing the envelope of what's possible.



Handset development process

COMPRION covers all phases of the product development process, from development and pre-conformance to conformance testing and interoperability testing. IT³ Prove! supports all the initial phases of development and pre-conformance testing up until the actual conformance test.



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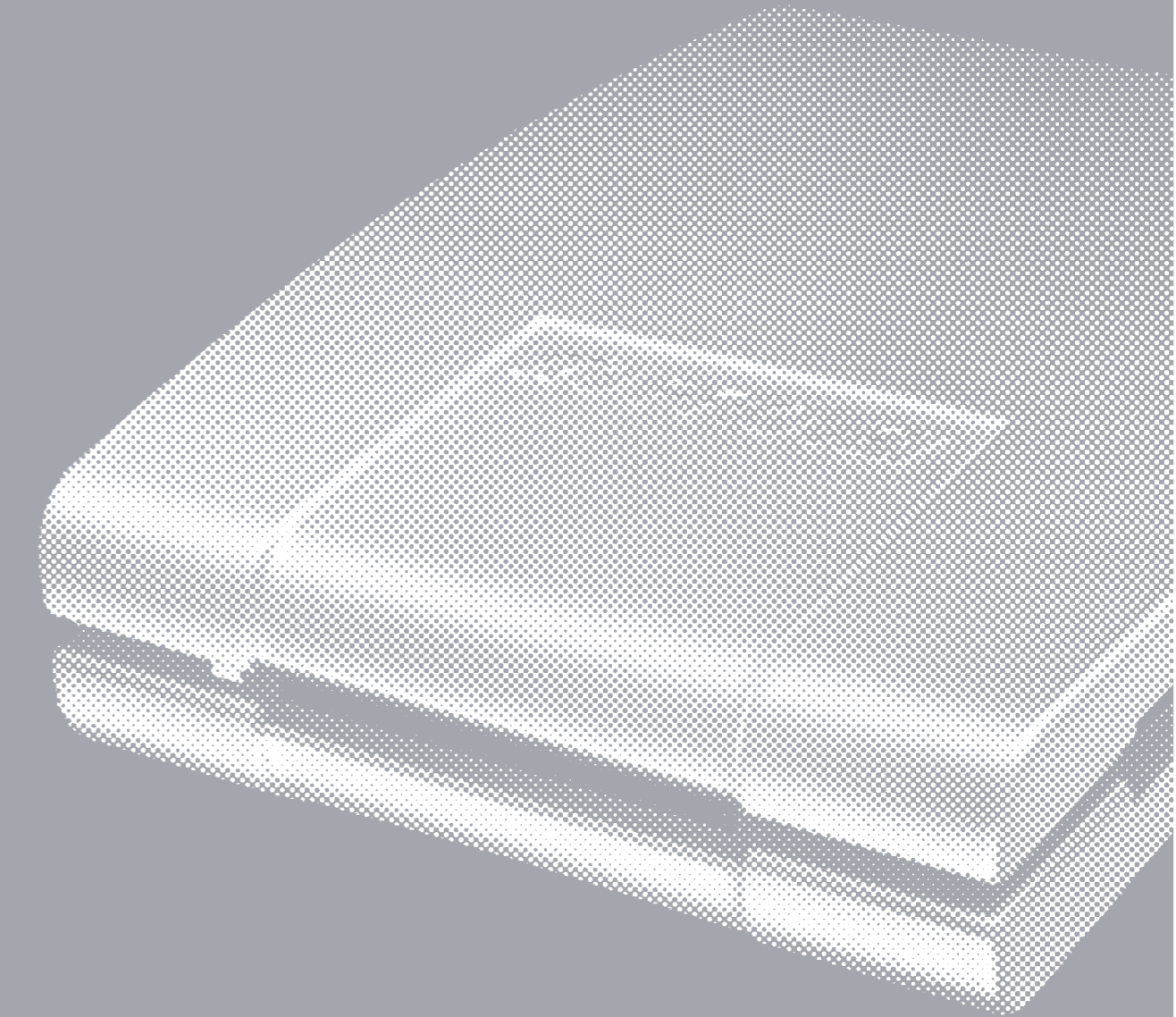
COMPRION is the market leader within conformance, pre-conformance and interoperability testing of the (U)SIM smart card interface. We've brought our expertise from IT³ Platform, the official GCF, PTCRB and CCF conformance tester, to bring you an attractively designed, robust, and portable solution for your development and pre-conformance needs.

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IT³ Prove!

A telecom handset development and pre-conformance tester



COMPRION

COMPRION

IT³ Prove!

IT³ Prove! comes with all the features you need to begin development testing or pre-conformance testing of mobile handsets. The software is modular and expandable, allowing you to access different features according to the changing nature of your testing needs. The COMPRION high quality service and maintenance keeps you up-to-date with the latest 3GPP and 3GPP2 standards. You can trust IT³ Prove! to not only support your business requirements today but also well into the future.



Test Set-up

IT³ Prove! connects to both a host PC and the mobile phone. Using up-to-date test packages, IT³ Prove! software on the PC controls the testing of the mobile device while ensuring the repeatability of all tests and measurements. Alternatively when testing with a "live" (U)SIM, a smart card can be inserted into the IT³ Prove! hardware.

Who benefits from IT³ Prove!

- Handset development test engineers
- Handset pre-conformance test engineers
- Application toolkit test engineers
- Interoperability test groups
- Network operator handset-qualification groups

General benefits and features



All standards and technologies in a single device

Only one box is required for seamless operation in multi-technology and application situations. In addition, COMPRION continually adds new modules, guaranteeing a future-proof investment.

Up-to-date software

All software modules and test cases are continually updated ensuring that you always benefit from the latest technological advances.

Strong user-friendly GUI

By using a user interface based on the established standard test device for GCF and PTCRB conformance testing, you get a dynamic view of the (U)SIM interface communication as well as the ability to adjust and define all relevant simulation parameters.

Standards

- ISO/IEC 7816 (1-4)
- ETSI
- 3GPP
- 3GPP2

Technologies

- GSM
- 3G (UMTS/W-CDMA/TD-SCDMA)
- CDMA2000

Smart Card applications

- SIM, ISIM, PISIM, USIM, R-UIM, SAT, USAT, CCAT

Remote control interface

- OLE-compatible automation interface
- COM-capable programming language as Visual Basic, VBA, Borland Delphi, Visual C++, C# etc.

One standard for files

With IT³ Prove! you only need one standard for files, information exchange and testing methodology. It also has an open interface to corresponding test systems or databases as well as allowing data import from other COMPRION test devices.

Multi-Purpose Handset Testing Tool

A flexible product providing end-to-end testing, IOT testing, testing in live networks and testing with a network simulator.

IT³ Prove! is a best-in-breed device that will help you to develop the products your customer relies on.

Test cases are identical with the validated GCF and PTCRB test cases

Exchangeable data files between:

- IT³ Platform
- IT³ Prove!
- IT³ Move!

IT³ Viewer – additive GUI tool for reading and interpretation of IT³ files without available test hardware on sight

ISO/IEC 7816 1-4 Smart Card simulator and Spy tool in one device

Service and Maintenance agreements – continuously updated basic software and test case packages following the standards of ETSI, 3GPP and 3GPP2 as well as the regulation by GCF and PTCRB

Training – COMPRION instructors provide for start up trainings, refresh or special usage training

A user-friendly product with mature structure

Use case specific benefits and features

Handset Development Testing

Testing (U)SIM interface protocol implementation

Full functionality for testing the (U)SIM interface protocol implementation. Using the powerful GUI, testers can work more effectively, adjusting the individual definition of all relevant simulation parameters.

- SPY FUNCTION with parallel, simulated display of electrical, protocol and application layer
- SIMULATION with self defined card parameters
- SIMULATION of self defined protocol test scenarios
- PROTOCOL ERROR simulation
- TIMING measurements

Testing (U)SIM toolkit implementation

Interface-testing features and extensive test set-up options ensure the ability to comprehensively check your handset's (U)SAT implementation by monitoring all relevant parameters. This means that your product will operate seamlessly and reliably with the latest revenue-generating services.

- GRAPHICAL INTERPRETATION of toolkit command sequences
- TRANSLATION of layer 7 information in readable text
- SIMULATION with self defined toolkit scenarios
- SIMULATION with replayed live scenarios
- TESTING in live with network simulator
- EASY TEST SCENARIO creation via toolkit proactive command pull down selection

Extremely flexible simulation setup

Requiring no advanced programming know-how, and using delivered templates, IT³ Prove! provides an extremely flexible tool for the testing and measurement of your handset's (U)SIM interface.

- CREATE TESTS BY DEFINING OR REUSING card features, simulated action, method of analysis and type of reporting.
- DESIGN ANALYSERS YOURSELF: Implement according to your needs, concentrate on essentials due to analyser code template, implementation in C#. Learn from provided examples with source code, use access via remote interface.
- PREWRITTEN ANALYSERS: Generic analysers with GUI, e.g. for toolkit, available. Specific analysers for specific needs, e.g. for pre-conformance testing, available. Parallel execution with other, e.g. self designed analysers possible.

Simulation of borderline behaviour

Test the limits of your (U)SIM interface by creating extreme card profiles that simulate the (U)SIM Card operating at the edge of its limitations. The benefit for you is a reduced risk of recall and the assurance of broad handset/(U)SIM card interoperability.

- SELF DEFINED SETTINGS of a smart card simulation.
- IMPORT of stored Smart Card profile or behaviour for reusing in simulation.

Handset Pre-Conformance Testing

Up-to-date test cases identical to conformance tester

IT³ Prove! is the only commercially available product executing test cases that are identical to the GCF and PTCRB validated system. With continually updated test cases following the standards of ETSI, 3GPP, and 3GPP2, you'll know that your product works to the latest standard and guidelines.

- 3GPP TS 51.010-1, 3GPP TS 51.010-4, 3GPP TS 31.121, ETSI TS 102 230, 3GPP TS 31.124, 3GPP2 C.S0048-0.

Testing (U)SAT implementation

Interface-testing features and extensive test set-up options ensure the ability to comprehensively check your handset's (U)SAT implementation by monitoring all relevant parameters. This means that your product will operate seamlessly and reliably with the latest revenue-generating services. IT³ Prove! comes ready to use and can be integrated in our package for combined handset conformance testing using COMPRION SIMfony.

- COMPACT INTEGRATED device with minimum of interference
- MATURE PRODUCT based on 15 years experience