COMPRION

FACT SHEET

Move 2

High-End Communication Tracer for All UICC Interfaces

Move 2 is a comprehensive trace tool covering all UICC interfaces of mobile phones and terminals. Move 2 speeds up the analysis by help of clearly arranged views of all relevant communication layers. Together with COMPRION's CLT Move the synchronized monitoring of contact-based and contactless communication allows CLF testing of NFC-enabled mobile phones.

The integrated digital storage oscilloscope enables thorough analysis of low level communication. It provides quick measurements for convenient visualization and comparison of results.

COMPRION's powerful Interoperability Test Center software grants full access to all functionalities of Move 2.

Main Capabilities

- Tracing and translating of communication on all contacts:
  - ISO/IEC 7816 1-4
  - SWP/HCI
  - IC-USB
- Synchronized NFC/SWP/HCI tracing (together with CLT Move)
- Clearly arranged and synchronized layer views
- Summary view, especially helpful for combined NFC, SWP and HCI traces
- Interpreters: (U)SIM, ISIM, R-UIM, (U)SAT, CCAT
- Powerful analyzers for timing measurements and error identification
- Integrated oscilloscope
- Remote control

Use Cases

- Interoperability testing (smart card/terminal)
- Development/debugging of
  - Mobile phones/chipsets
  - Smart cards
  - M2M devices
- Visualization and measurement of analog signals
- Combined NFC/SWP/HCI testing
- Quality assurance

Specification

CAPABILITIES

ISO/IEC 7816 Monitoring

- Universal Translator for GSM, W-CDMA, LTE, CDMA2000, SIM/SAT, USIM/USAT, CSIM/ CCAT and ISIM
- Provides a structured view of the terminal profile
- OTA Remote Management Translator views:
  - Application Layer view
  - BIP Layer view
- Supported ISO/IEC 7816 protocols: T=0 and T=1

SWP/HCI Monitoring

- Based on ETSI TS 102 613/ETSI TS 102 622
- SHDLC (Simplified High Level Data Link Control)
- Contactless tunneling (CLT)
- HCI visualization

IC-USB Monitoring

- According to ETSI TS 102 600
- Of bytes/frames/bus–states
- Interpretation of SCSI commands in IC-USB mass storage recordings

General Monitoring Features

- Synchronized visualization of protocol-specific information displayed in
  - Physical layer view
  - Protocol layer view
  - Transport layer view
  - Application layer view
  - Summary view
  - Info view
- Protocol compliance checks on-the-fly
- Search and filter within the different layer views

OPTIONS

Universal Telecom Translator

- Supporting GSM, W-CDMA, LTE, CDMA2000, WiBro™ (incl. SIM/SAT, USIM/USAT, CSIM/CCAT and ISIM)

NFC Synchronization Package

- COMPRION SyncBus enables the synchronization with NFC testing devices CLT Move or CLT One

External I/O

- Interface for external I/O signals
- Stand-alone viewing software for logfiles traced-with COMPRION test tools (free of charge)

Analog Scope

- Integrated digital storage oscilloscope
- Quick measurements
  - Fall/rise times
  - Peak-to-peak
  - Top/bottom
  - Duty cycles
- Max. number of channels: 16 digital, 2 analog
- Analog voltage measurements (res. ~1.8 mV) on contacts VCC, RST, CLK, I/O and SWP
- Analog current measurements on contacts VCC (res.~60 µA) and SWP (res. ~1 µA)
- Digital monitoring on all contacts and interfaces
- Adjustable recording depth: 4 k–16.7 M samples

COMPRION MoVie

- Stand-alone viewing software for logfiles traced with COMPRION test tools (free of charge)

Specification

GENERAL FEATURES

- Supported smart card voltage: 1.2 V / 1.8 V / 3 V / 5 V
- Speed: max. 8 clock cycles/etu at 10 MHz
- Supported IC-USB modes: ICCD, ethernet emulation module, mass storage
- Input contacts
  - Voltage range: 0–5 V
  - Impendance: CLK, RST, I/O, SWP: min. 5 MΩ, max. 30 pF USB: min. 1 MΩ, max 30 pF
- Time measurement performance:
  - Resolution: 20 ns
  - Measurement units: etu, second
- Time-synchronization interfaces
  - High-speed COMPRION SyncBus
  - Trigger out:
- Connection between Analog Scope and external oscilloscope (1 V signal level at 50 Ω)
- COMPRION Monitoring Remote Control
- Firmware updated automatically via USB interface

SCOPE OF DELIVERY

- Move 2
- Interoperability Test Center
- Flex adaptor types A-D (terminal connectors)
- Plug-in SIM adaptor (PISA)
- USB 2.0 cable
- AC power plug (100–240 V/50–60 Hz, ±10 %) for DC power supply (12 V, 1 A)
- Travel bag

HOST REQUIREMENTS*

- Processor operating frequency: min. 2 GHz (2 x 1.5 GHz dual core or more recommended)
- RAM: min. 4 GB (8 GB recommended)
- Hard disc (available space): min. 10 GB
- USB interface: min. USB 2.0 highspeed
- Supported OS: Windows 7, 8.1 and 10

* Host is not part of the delivery.

DIMENSIONS

- W x D x H: 185 x 125 x 40 mm
- Weight: 0.9 kg

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