



SmartTrust Certified™

Ensure compatibility between Wib implementations

SmartTrust Certified is a certification program for SIM cards, including testing of SmartTrust Wib™, RFM, WSM and RAM compliance. The certification program is open to all SIM card vendors.

The Challenge

The global success of GSM and UMTS network technology has fueled the growth of operators and infrastructure vendors alike. Mobile network operator's choices for SIMs have grown from a handful two decades ago to 100s today. The greater choice allows operators to choose multiple SIM types for different market segments. However, with choice comes the need for ensuring conformity to standards including SmartTrust Wib, ETSI Remote File Management (RFM) and ETSI Remote Application Management (RAM).

The challenge is to ensure compatibility between the DSTK (Dynamic SIM Toolkit) implementations including the Wib and S@T specifications. As well ensuring interoperability between the different SIM cards and SmartTrust DP™ (Delivery Platform) is vital to allow mobile operators freedom of choice when selecting the SIM that best meets their needs.

DSTK implementations that are consistent simplify the work of application developers. They must be able to develop once and rest assured that their application works on multiple SIM types.

The Solution

SmartTrust Certified is an open SIM certification program ensuring adherence to standards including Wib, RFM and RAM. A majority of the suppliers in the market participate in the program. The program started nearly a decade ago in 2001.

SmartTrust Wib is a DSTK interpreter. Developed by SmartTrust in 1999 it has become the de facto standard for SIM based application interpreters and the world's most widely deployed DSTK interpreter. All the major SIM vendors have implemented SmartTrust Wib.

SmartTrust tests and certifies the SIM implementations based on SmartTrust Wib specifications. These specifications are licensed for development to the members of the program. By doing this, the SmartTrust Certified program ensures compatibility between the Wib implementations on different SIM cards.

Over 120 implementations from more than 25 SIM vendors have been tested and awarded the title SmartTrust Certified.

To become SmartTrust Certified the card has to pass a battery of over 500 test cases covering Wib, RFM, WSM and RAM compliance.

A certificate is issued for every card that has passed the tests. The certificate is given for a SIM card with chip and mask defined and not to a single module of the card implementation. This is to ensure that the interoperability between a specific card module and the implementation. This is an important part of the certification.

All SmartTrust Certified cards are publically listed on SmartTrust's website.

In addition to SmartTrust Wib, the following SmartTrust developed specifications are licensed to the program members:

- UTK WIB (for CDMA networks)
- BIP Controller (Bearer Independent Protocol)
- Java API

In addition, members of the Program can have their S@T (SIM Alliance Toolbox) implementations tested by SmartTrust in order to ensure interoperability with the SmartàLaCarte Universal Gateway platform regardless of the choice of DSTK interpreter.

Benefits

A SmartTrust Certified card will shorten time to market, save money and ensure interoperability with the SmartTrust DP. The result is a positive subscriber experience regardless of SIM vendor used.

SmartTrust Certified cards are supported by the SmartTrust support organization. Non-certified cards may generate additional support costs.

Wib applications on certified cards behave similarly independently of the used SIM type. Unknown or unwanted behavior is avoided with existing or future services due to the high quality of certified cards.

Application providers can develop once and deploy quickly and easily for multiple card types following the open SmartTrust Wib specification.



Related SmartTrust Products and Services

SmartTrust Wib™

The world leading DSTK environment.

SmartàLaCarte Universal Gateway™

An open and interoperable universally server platform for Dynamic SIM ToolKit (DSTK) applications. Allows mobile operators the possibility to use the same server platform regardless of choice of DSTK technology.

SmartTrust SIM Consultancy Services

SmartTrust SIM card Interoperability Testing Service and SIM Management Service.

SmartTrust website provides detailed information about the SmartTrust Certification program: www.smarttrust.com.

SmartTrust SIM card Interoperability Testing Service

After a SIM card has passed certification testing by SmartTrust, personalization of the card is done to adapt to customizations requested by the operator. The personalization of the card has impact on the card behavior and could potentially affect the interoperability between the SIM card and the operator's production platform. To ensure full interoperability and verify that it is not affected by the customization SmartTrust offers an interoperability testing service to avoid such complications.

SmartTrust SIM Management Service

SIM management requires SIM knowledge which sometimes for mobile operators may be in short supply. SmartTrust offers a SIM management service containing advice and technical expertise about SIM technology and SIM card related processes, card requirements, SIM card tests and SIM logistics.

SmartTrust has gained real-life experience of SIM cards for more than 2 decades. It has gathered wide and deep knowledge within the SIM and OTA field as well as being a leading force in driving SIM technology forward. In addition, SmartTrust has vast experience of SIM card testing from nearly 10 years of daily testing in the SmartTrust Certified program.

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