



SmartàLaCarte Universal Gateway™

Universally Compatible Server Platform for DSTK

SmartàLaCarte Universal Gateway™ provides interoperable usage of varying client technology on the SIM. It provides mobile operators the possibility of using the same server platform regardless of choice of DSTK client technology.

The Challenge

Dynamic SIM Toolkit (DSTK) is a flexible and light-weight way of providing operator controlled menu driven services to the subscriber. Two major DSTK interpreter technologies have emerged: SmartTrust Wib™ and the SIM Alliance Toolbox (S@T). Each client technology has been supported by its own server technology.

Increasing competition has led to mobile network operators looking for ways to optimize their supply chain. SIM procurement is a complex activity, especially as more advanced and larger capacity SIMs are introduced. To maintain flexibility in the procurement process operators need a flexible server platform capable of managing cards regardless of size, type or DSTK technology.

In addition, once the cards have been deployed in millions, it has been difficult for the operator to change DSTK technology since it has implied that two servers either need to be run in parallel - one for the S@T cards and one for the Wib cards. This alternative has additional undesirable costs for operators.

When looking to introduce new SIM suppliers, operators need to consider interoperability. Investments made in creating operator centric and value added services must be reused for the new SIM cards. Ideally, an open certification program will attest to a SIM card's adherence to standards, published functionality and behavior. Certified cards ensure interoperability and investment protection.

The Solution

The SmartTrust SmartàLaCarte Universal Gateway is a gateway server between the DSTK interpreter and the remote application servers. The Universal Gateway combines support for both Wib and S@T thus enabling operators to successfully run S@T and Wib cards in parallel. This enables the possibility of a soft migration path from S@T to Wib using only one server. It provides operators the opportunity to stay with the S@T card technology for legacy applications and still gain the flexibility of an universal server platform for launching new applications.

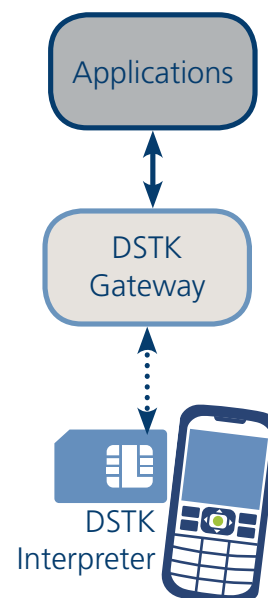
In parallel with the Universal Gateway, SmartTrust also provides the Universal Service Manager (USM) that is capable of managing services for both Wib and S@T in parallel.

Benefits

SmartTrust Wib is the world's most widespread DSTK interpreter for mobile operators. Developed initially by SmartTrust in 1999, it has become the de facto standard for SIM based application interpreters. SmartTrust Wib enjoys the support of the SmartTrust Wib Certification program which ensures compatibility between implementations from different SIM vendors. All the major SIM vendors have implemented SmartTrust Wib. To date, over 120 implementations from more than 25 SIM vendors have been certified.

With the introduction of the SmartàLaCarte Universal Gateway, SmartTrust introduces support for S@T browser technology. This enables operators to select the SIM technology that best meet their needs.

The position of the SIM as an application platform at operators is significantly strengthened by this increase in interoperability. It strengthens the whole application ecosystem around the DSTK and SIM as an application platform. Application providers benefit from an increased interoperability and this leads to larger available set of applications and greater revenue for the operators.



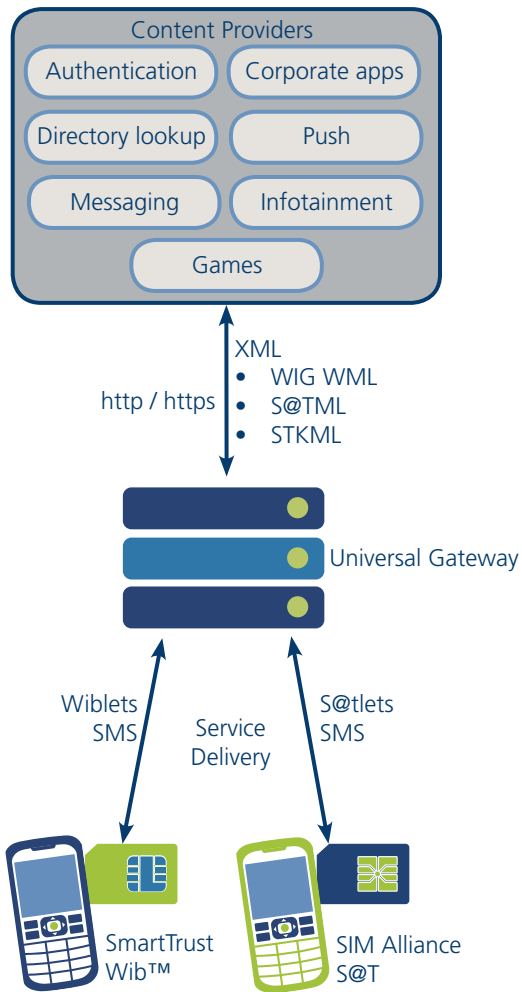
Features

Operational Gateway

- Automatic detection of client type
- Supporting multiple application languages
- Java card technology support
- SmartTrust Wib support
- S@T Support

Service Management

- Menu management
 - S@T
 - Wib



Dynamic SIM Toolkit Services

- Light weight service environment on the SIM
- Always available on all devices
- Operator controlled
- Menu or event driven services
- Can be used as a launch pad for:
 - Mobile Payments
 - WPKI
 - Prepaid Refill
 - Customer Service
 - Infotainment

Related SmartTrust Products and Services

SmartàLaCarte™

A turnkey solution for value added and operator centric services to the entire subscriber base through standard SIM cards. Simplifies application development and distribution while ensuring availability to all subscribers independent of handset model.

SmartTrust City™

A portfolio of applications that run on SmartàLaCarte, provided both by SmartTrust and application partners.

SmartTrust Certified™

SIM card certification, ensuring correct implementation of SmartTrust Wib™, RFM, RAM and S@T. The certification program is open to all SIM card vendors.

SmartAct™

The SmartTrust SIM management platform - a total solution for reliable Over-the-Air management of the SIM life cycle over-the-air. It uses the Remote File Management standard, supports vendor specific OTA protocols from all major SIM suppliers and supports Remote Applet Management according to the ETSI specifications for Java™ Card based SIMs.

SmartTrust Wib™

The world leading DSTK environment.

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