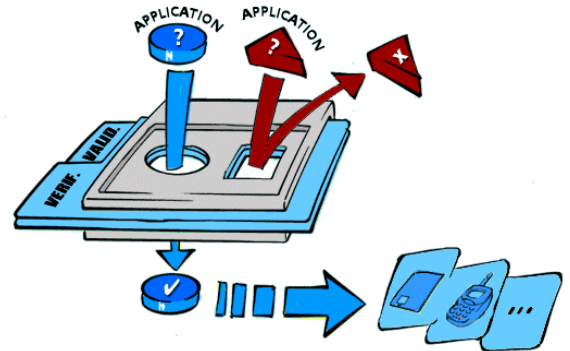


Secure Provisioning

Automating & Securing Applet Distribution

As market demand for value-added services significantly increases and open-system-based platforms mature, application provisioning becomes a key issue.

A new challenge then arises: how can applications be deployed securely without running into the issuance bottleneck?



Trusted Labs offers a set of cross-industry technologies to help automate and secure application provisioning for the embedded systems industry.

Complementary Provisioning Technologies

Our technologies cover the network-independent part of the distribution process. They can easily be integrated into any provisioning process, or into an existing certification process.

Applet screening: Although different levels of checking can be performed on applets, 'screening' methods deal directly with the byte code, allowing for a fully automated process.

- Verification:** This step aims at checking the correctness of the applet under scrutiny. It ensures the applet will not violate basic Java operational rules and wreak havoc with the host system on which it is to be loaded. Verification can be carried out off- or on-platform.
- Validation:** Validation goes one step beyond verification, in checking that byte code does not go against the security policy of a specific product issuer. This is particularly useful when ensuring interoperability, or when checking that certain security procedures are adhered to.

Market Segments

Trusted Labs uses internal cross-industry tools to automate the two provisioning technologies:

- TL VSAM** for safe and secure off-platform applet verification.
- TL Application Diagnosis Tool (TL ADT)** for applet validation.
- TL Static Analysis Tool (TL SAT)** for mobile application validation (Java, Symbian, Windows).

These tools are particularly adapted to the smart card and mobile phone industries, and have already been endorsed by several major players in these industries.

Supported Industry Standards

- Smart Card:** Java Card™ API, GlobalPlatform API, SIM Toolkit API
- Mobile:** CLDC Platform, MIDP API, WMA, SATSA, Symbian, Windows CE, .NET Compact

Endorsements

- MasterCard:** TL Application Diagnosis Tool used in CAST process to validate M/Chip applications.
- SIMalliance:** Validation of SIM toolkit applets (TL Applet Diagnosis Tool) for Java GSM cards.
- Visa:** Verification, Security and Authentication Module (TL VSAM) for Java banking cards.
- SFR:** Validation of SIM tool kit and MIDP applications.