



## Triskan Server Application Development Kit (SADK) Technical Brief

### Introduction

The standard **Triskan TS8** mobile terminal scanner comes with the Piccolink Emulation (PLE) firmware and a terminal application compatible with the Piccolink protocol.

Information and data entry fields displayed on the terminal scanner's screen are defined by a developer of the back-end application running on a Windows or Linux server. The server application combines the customer specific business logic, database and provides the **Triskan TS8**'s user interface. The back-end application sends generated forms to **Triskan TS8** terminal scanners over the Piccolink compatible PLE protocol. The user input of a terminal scanner is likewise transmitted to the back-end application for further processing.

**Triskan TS8** communication capability is predetermined by the manufacturer in a form of a specific module: WLAN or GPRS.

## Triskan SADK concept

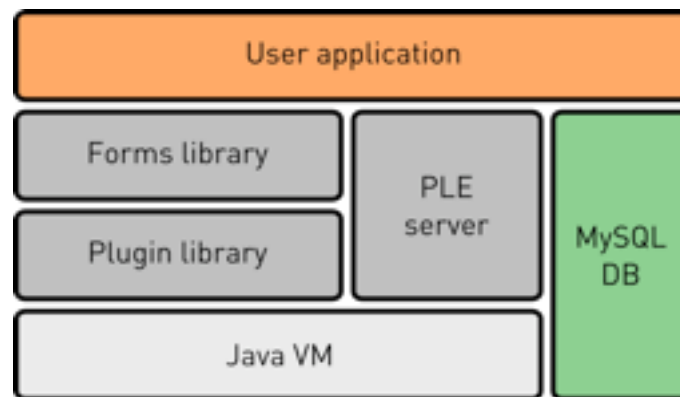
**SADK** supports , simplifies server (back-end) PLE application development and enables rapid deployment of **Triskan TS8** terminal scanners.

- **Simplicity.** Designed from the beginning, the server architecture allows for modularity and flexibility. Server application development is supported by well-documented interfaces included in the **SADK** package.
- **Rapid development.** Convenient Eclipse IDE, local and remote debugging support, Java type safety, object and interface oriented approach of **SADK** simplify the development of server applications.
- **Cross-platform.** Java based application server supports Windows, Linux, Mac OS X and other operating systems.
- **UI abstractions.** SADK provides convenient abstractions for application forms and input fields. Thus, an application developer is not burdened by the internals of the communication protocol.

- Multiple on-line terminals.** Multi-threaded application server enables many simultaneous connections without a performance penalty. Each **Triskan TS8** terminal connection is isolated: incoming data is processed separately, keeping the terminal context on per-connection basis.
- Multiple applications – single server.** Application server supports multiple applications running simultaneously on one TCP port. Each terminal scanner can be associated with a different application. Upon connecting, the serial number of **Triskan TS8** is referenced from the server-side database and the unit specific application is started.
- Self-contained.** Java SE runtime and MySQL database driver are integrated into **SADK**; no other dependencies are required.

## Triskan SADK contents

- Pre-compiled Java redistributable archive (JAR) with server daemon
- Application samples with source code
- Full Java source code for **SADK** (with Advanced version only)
- SADK** user manual
- Triskan PLE protocol documentation
- Eclipse IDE for Java developers
- Java SE Runtime Environment 6
- MySQL Connector/J



General Architecture of SADK