GO-Trust

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Getting Started with GO-Trust microSD Java

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Prerequisites

1. GO-Trust microSD Java.
2. GO-Trust microSD-Java SDK which includes
   - Windows version
   - Android version
   - Linux version
3. Conventional microSD readers.

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Prerequisites (Cont.)

4. Development environment on Windows desktop:
   - OS requirement: Windows XP, Vista, or 7
   - IDE Requirements: Please refer to section "Introduction to microSD-Java SDK" for each platform.
5. Development Tool Kit for Java Card such JCOP or Oberthur's Cosmo Development Kit.
6. microSD-Java applet download tool: jSDSCTool

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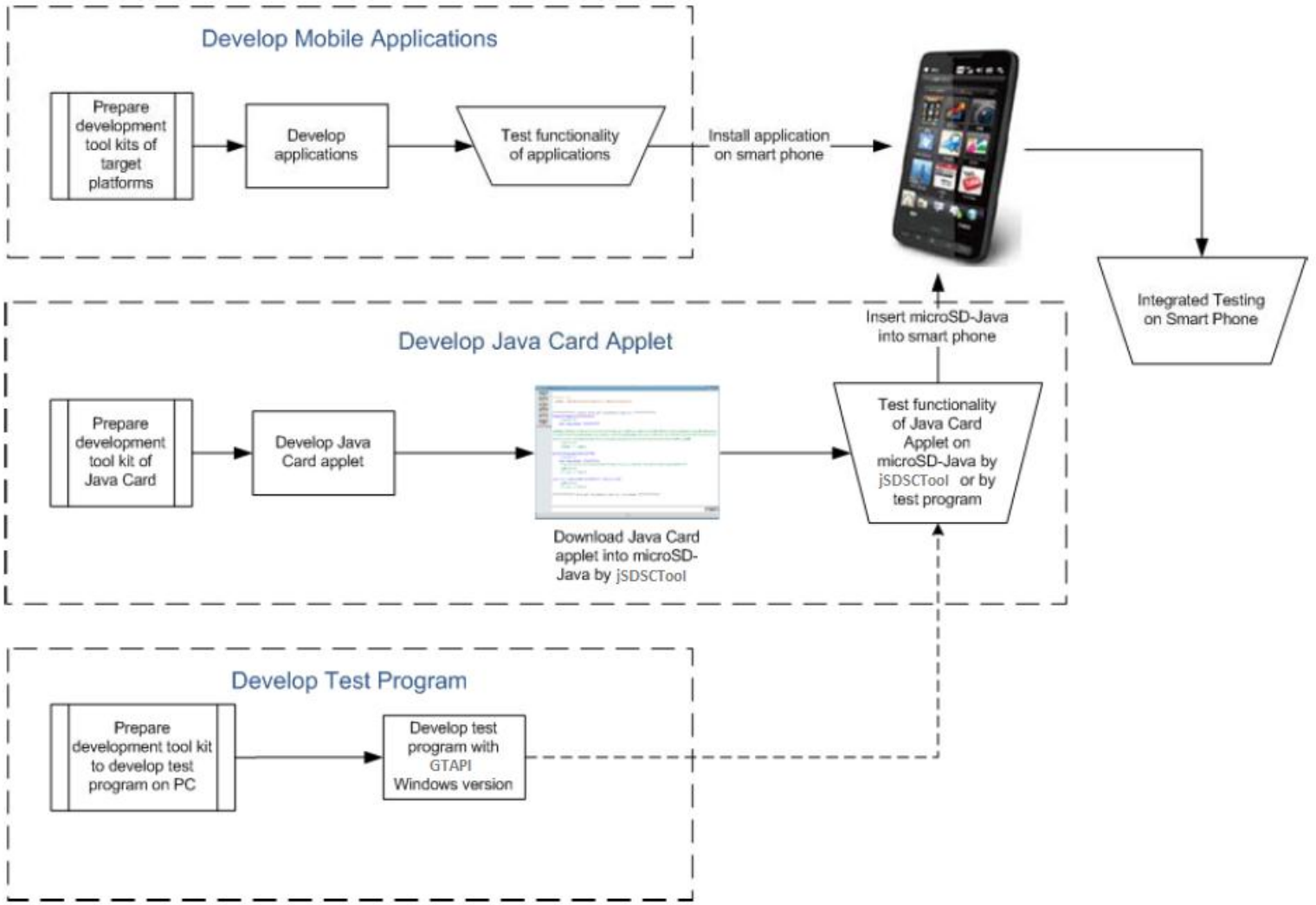
Development Process



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Download Java Card Applet

- Make your own Java Card applet cap file:
  - You can build your own Java Card applet by Java Card development and generate cap file.
  - Or you can also test the sample cap file which is attached with the jSDSCTool folder in SDK package
    - **Sample Code**: microSD-Java Package\jSDSCTool\sample_code\Test_microSD-Java_RSA\src
    - **Test Cap File**: microSD-Java Package\jSDSCTool\sample_code\Test_microSD-Java_RSA\cap\TestRSA.cap
    - **Test Command**: microSD-Java Package\jSDSCTool\sample_code\Test_microSD-Java_RSA\test_scripts.txt
  - Please refer to jSDSCTool Readme for the operation detail.

*** If you use Cosmo development kit, please choose "jar generation" in OCS converter configuration**

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DEVELOPMENT ENVIRONMENT WITH GO-TRUST SDK

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Introduction to microSD-Java SDK

- GO-Trust microSD SDK includes a so-called SESDAPI library for multiple platforms.
- Prepare your development environment and copy the corresponding library to the right path of your environment.

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microSD-Java SDK Windows

- Windows:
  - Development Environment:
    - Windows XP, Vista, or 7
    - MS Visual studio 2005 or above
- Library files:
  - Copy “SDSCDev.h” and “SDSCErr.h” to your source code folder.
  - Copy SESDAPI.lib and SESDAPI.dll to the folder which is indicated by project library path.

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microSD-Java SDK Android

- IDE under Android (C development):
  - Environment:
    - android-ndk-r8
    - Cygwin
  - Library files:
    - SDSCDev.h, SDSCErr.h and libSESDAPI.so
    - Copy libSESDAPI.so to /system/lib and copy SDSCTest to /data/local/
  - Others: If you'd like to test the program written in C, please follow the procedure:
    - Put libSESDAPI.so to "system/lib"
    - Put your application (named **SDSCTest here) in "data/local"**
    - Use tool adb to run #adb push **SDSCTest data/local**
    - Change attribute of test file: #chmod 777 SDSCTest
    - Execute your application: ./SDSCTest

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microSD SDK Android (Cont.)

- IDE under Android (JNI development):
  - Environment for Java Application:
    - JDK 1.6.0
    - Eclipse 3.4
    - android-sdk-windows-1.5
  - Environment for C Application:
    - android-ndk-r8
    - Cygwin
  - Library files
    - libSESDAPI.so and SESDAPI.jar
  - Development Procedure
    - Copy libSESDAPI.so to \project\libs\armeabi\ of the project
    - Copy SESDAPI.jar to \project\libs\ and import it during programming
    - Run SDSCTest.apk or use adb tool #adb install SDSCTest.apk