

PowerSIM combines a fully functional SIM simulator with a rapid Java™ applet development environment that lets users build SIM Toolkit test applications in hours. Prototype, develop and demonstrate SIM applications of any size and complexity to fully test a terminal's behaviour.

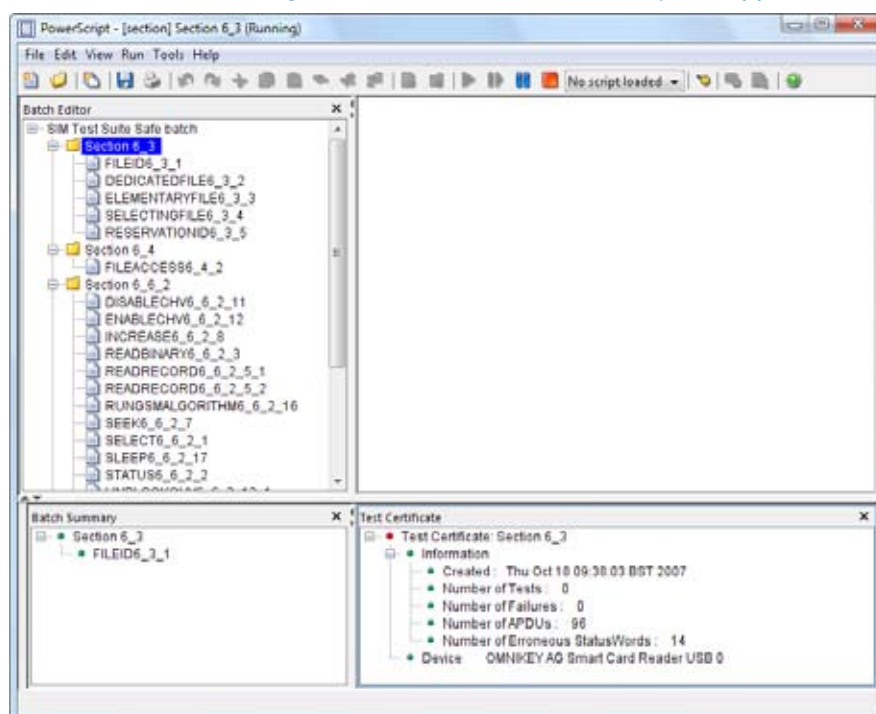
Users can scan an external SIM, or write their own SIM image to run their test applications against a real or simulated handset. This provides a robust and predictable testing environment. Adding a SIM for network authentication to the framework provides end-to-end testing. No network simulation is necessary; instead users can test across a real network for truly realistic results.

Toolkit Test Applications

PowerSIM Toolkit test applications are written in Java™, using Aspects' comprehensive API. Users learn from the library of example test applications and can choose to extend them or to write entirely new applications. PowerSIM assumes only limited scripting experience and is designed to help build the user's experience and confidence. A simple IDE is built in for on-the-fly scripting and compilation.

- API for automating handset testing
- Prototype Toolkit applications
- Test non-Toolkit aspects of the interface between handset and SIM
- Flexible Java™ API
- Go beyond Toolkit application testing
- End-to-end handset testing
- Integrates with the SmartStation3
- Add on Toolkit Test Suite

PowerSIM showing the certificate from a recently run applet.



With Aspects' Java™ API users write applications at the command level. PowerSIM reduces the risk of errors and saves time by providing a translation from the user's high-level commands into a format understood by the terminal.

PowerSIM is an excellent resource when prototyping Toolkit applications as well as when testing them.

Beyond Toolkit Testing

PowerSIM goes beyond Toolkit application testing and tests a wide range of handset behaviour. For example, PowerSIM can test how the handset handles:

- Different voltages
- Different clock stop settings
- Parity errors
- Application error handling
- Character timing

Easy to Use Interface

Aspects' tools are designed to be easy to use and have clear interfaces. PowerSIM gives users immediate visual feedback on tests. Output from applets is displayed as are test certificates. Test certificates can be saved and shared.

The Toolkit Test Suite for GSM can be added to PowerSIM and contains all the tests specified in 3GPP TS 11.10-4. The SmartStation3 and Aspects' SpyTools let users debug the communication between handset and PowerSIM quickly and easily. They provide an efficient route to finding out why a test failed.