

**Project Reference**    **Testing of SyncML and ATC - Commands**

**Keywords**

SyncML – Client, Test, AT-Commands, Mobile Station, MS, XML, MMI

**Task**

Specification and creation of test scenarios and –lists (based on ATC-Commands) to validate the functionality of a SyncML-client on a GSM mobile station.

Execution of these tests (SyncML and ATC).

**Solution**

SyncML is a XML-based protocol used for data synchronisation. It is used to synchronize user related information (e.g. appointments, address-books, To-Do-lists, notes...) with a PIM or alike. It was designed under consideration of limited resources on a mobile station and to ensure interoperability with many devices.

A SyncML-conformance test tool was used for the scope of this SyncML test campaign. With this tool it is possible to simulate a SyncML server and to validate the SyncML message flow of the test specimen. Further tests were done under live-network conditions with existing SyncML servers.

Test criteria's were the correct mapping of the synchronized data fields and the basic SyncML functions (Add, Delete, etc...)

Furthermore the SW-stability was validated by boundary-check tests.

Mobile station relevant AT-Commands are specified in GSM 07.05; 07.07. To test this extension set of commands a test tool was developed to script reference test cases and to automate test execution.

**Address**

Bardenheuer Software GmbH  
Sales and Marketing  
Elsenheimerstr. 43  
80687 Munich  
Germany

Phone: +49 (0)89 / 54 70 54 – 0

Fax: +49 (0)89 / 54 70 54 – 11

[sales@bardenheuer.de](mailto:sales@bardenheuer.de)

<http://www.bardenheuer.de>