

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.

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