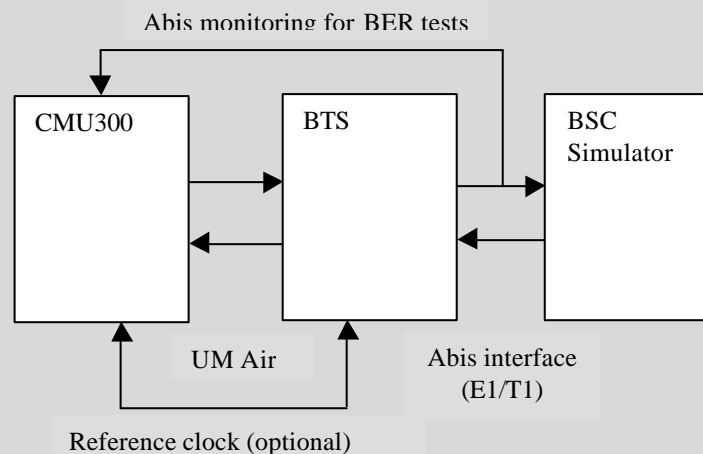## RF test of GSM / EDGE BST's, controlled locally via line interface (E1/T1; Abis) by BSC simulator

(application: operations, installation, commissioning)

Test Set-up	Abis monitoring for BER tests CMU300 — BTS — BSC Simulator UM Air — Abis interface (E1/T1) Reference clock (optional)
Characteristics of test environment	"Single-carrier" RF conditions
Suggested configuration	CMU300; CMU-B12 (optional); CMU-B21; CMU-K31...34; CMU-K41 (optional); CMU-B71 (optional); CMU-K39 (optional)

Supported measurements	• synchronisation to TDMA timing of BTS possible via BCCH or Multi-frame-trigger (CMU = Signalling Mode)
	• TX-Tests (time slot selective measurements possible)
	  • Mean transmitted RF carrier power
	  • Transmitted RF carrier power versus time
	  • Modulation accuracy
	  • Spectrum due to Modulation
	  • Switching Transients Spectrum
	• RX-Tests: BER measurements on TCH's
	  • Continuos BER measurements based on real time channel coding processes
	• Support of different BER test-path's

Remarks	• BSC simulator functionality to be provided by separate solution • BER tests on circuit switched channels in most cases possible via Abis "monitoring" (option CMU-B71 required) • DBLER tests (GPRS, EGPRS) are only possible, if the BSC-simulator supports the loop-back and a special BTS test-mode (one "static" TS with packet switched channel coding active on up- and down-link) • Signalling procedure MOC (optional) to be supported by BSC simulator