



**Technical Document**

**GSM PROTOCOL STACK**

**G23**

**GENTLE – GENERIC TEST AND LOGGING  
ENVIRONMENT**

**DEVELOPER DESCRIPTION**

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## 0 Document Control

### 0.1 Change History

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2001-Feb-26	RK		0.1		1
2003-Aug-21	RK		0.2	Draft	2

**Notes:**

1. Initial version
2. New Document Id introduced

### 0.2 List of Figures and Tables

### 0.3 List of References

[GSM 2.30]	ETS 300 511: July 1995 (GSM 02.30 version 4.13.0) Man-Machine Interface (MMI) of the Mobile Station (MS), ETSI
[XPAN]	06-03-36-UDO, xPanel – MMI Test Application (PC) (xpan_userguide.doc)
[MOAN]	06-03-53-UDO, MoanBtn – Instant GUI-problem Informer (mbtn_userguide.doc)
[XM]	06-03-55-UDO, XM –GUI-frontend for GPF m.bat (xm_userguide.doc)
[PCO_UG]	06-03-35-UDO, PCO2 – Tracing Environment (pco_userguide.doc)
[GENTLE_UG]	06-03-47-UDO, GENTLE – Userguide (gentle_userguide.doc)
[TCGEN_I]	TCGen – Introduction (tcgen_intro.ppt)
[TCGEN_D]	06-03-32-SLL, TCGen – Developers Description (tcgen_description.doc)

## 0.4 Abbreviations

ACI	Application Control Interface (AT Commands)
G23	The Condat implementation of Layers 2 and 3 of the GSM Protocol Stack
G23 Target System	Hardware which executes G23
LCD	Liquid Crystal Display
MM	Mobility Management
MMI	Man Machine Interface
MOC	Mobile Originated Call
MTC	Mobile Terminated Call
PC	Personal Computer
PCO	Point of Control and Observation
PIN	Personal Identification Number
RS232	Serial Communication Standard
Target System	Shortened form of 'G23 Target System'
TCGEN	TestCase Generator
GENTLE	GENeric Test and Logging Environment

## 0.5 Terms

Entity	Program which executes the functions of a layer
Message	A message is a data unit which is transferred between the entities of the same layer (peer-to-peer) of the mobile and infrastructure side. Message is used as a synonym to protocol data unit (PDU). A message may contain several information elements.
Primitive	A primitive is a data unit which is transferred between layers on one component (mobile station or infrastructure). The primitive has an operation code which identifies the primitive and its parameters.
Service Access Point	A Service Access Point is a data interface between two layers on one component (mobile station or infrastructure).

# 1 Introduction

GenTLE - acronym for Generic Test and Logging Environment - is a GUI-Frame for any kind of testing application. One main feature is the possibility to dock the windows of other programs into the gentle main window.

This developers description is currently under construction.

For a userguide see [GENTLE\_UG].

## 2 Solution

### 2.1 General Procedure

#### 2.1.1 Environment

For use under Windows:

#### 2.1.2 Build Process

MS Developer Studio 6.0 must be installed and its bin-directory has to be in the PATH. (TI internal you should use /GPF/initvars.bat)

ClearCase : make sure all project dependencies are solved by your config spec (see /GPF/assist/readme\_gentle.txt)

no ClearCase : make sure that you get all files on which gentle depends (see /GPF/assist/readme\_gentle.txt)

Change to gentle directory and call 'gnumake' (or 'gnumake help' for more options).

Hint: remove error.log before running make if you want to track current ClearCase errors.

### 2.2 Detailed Descriptions - **under construction** -

#### 2.2.1 The Generator

### 2.3 Test

- C-Entity test
- integration test

### 2.4 Interface Specifications

The next paragraphs contain specific informations about used and provided interfaces.

#### 2.4.1 ... - **under construction** -

### **3 Known problems and future tasks**

This paragraph is meant to show which bugs are already found (but not removed yet) and to provide an impression of future plans concerning this product.

#### **3.1 Known bugs**

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#### **3.2 „Soon implemented“**

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#### **3.3 „Nice to have“**

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## Appendices

### A. Acronyms

**DS-WCDMA** Direct Sequence/Spread Wideband Code Division Multiple Access

### B. Glossary

**International Mobile Telecommunication 2000 (IMT-2000/ITU-2000)** Formerly referred to as FPLMTS (Future Public Land-Mobile Telephone System), this is the ITU's specification/family of standards for 3G. This initiative provides a global infrastructure through both satellite and terrestrial systems, for fixed and mobile phone users. The family of standards is a framework comprising a mix/blend of systems providing global roaming. <URL: <http://www.imt-2000.org/>>