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**Technical Document**

**GSM PROTOCOL STACK**

**G23**

**MBTN-INSTANT GUI-PROBLEM INFORMER**

**USERGUIDE**

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## 0 Document Control

### 0.1 Change History

Date	Changed by	Approved by	Version	Status	Notes
2001-Feb-26	RK et al.		0.1	Being Processed	1
2003-May-20	XINTEGRA		0.2	Draft	
2003-Aug-18	RK		0.3	Draft	2

#### Notes:

1. Initial version
2. New Document Id introduced

### 0.2 List of Figures and Tables

### 0.3 List of References

<b>[GSM 2.30]</b>	ETS 300 511: July 1995 (GSM 02.30 version 4.13.0) Man-Machine Interface (MMI) of the Mobile Station (MS), ETSI
<b>[XPAN]</b>	06-03-36-UDO, xPanel – MMI Test Application (PC) (xpan_userguide.doc)
<b>[MOAN_DD]</b>	06-03-53-SLL, MoanBtn – Instant GUI-problem Informer (mbtn_description.doc)
<b>[XM]</b>	06-03-55-UDO, XM –GUI-frontend for GPF m.bat (xm_userguide.doc)
<b>[PCO2]</b>	06-03-35-UDO, PCO2 – Tracing Environment (pco_userguide.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'

## 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

G23 is a software package implementing Layers 2 and 3 of the ETSI-defined GSM air interface signaling protocol, and as such represents the part of a GSM mobile station's protocol software which is both, platform and manufacturer independent. Therefore, G23 can be viewed as a building block providing standardized functionality through generic interfaces for easy integration.

The G23 suite of products consists of the following items:

- Layers 2 and 3 for speech & short message services,
- Layers 2 and 3 for fax & data services,
- Application Control Interface/AT Command Interface,
- MMI and MMI Framework (MFW) and
- Test and integration support tools.

This document is the User Guide for the “Moan button” – a utility for instant complainings about a GUI-tool.

Currently the following GPF-tools support the moan button: PCO2 (see [PCO2]), the xPanel (see [XPAN]), xm (see [XM]), the TapCaller and MSCview (see “\GPF\html\mscview.html”).

## 2 Application Manual

The main concept of the “Moan button” is to give the user of a GUI-tool an instant possibility to moan about bugs, uncomfortable arrangements a.s.o.

The first step to make an application supporting the “Moan button” has to be done by the developer of this application (see [MBTN\_DEV]).

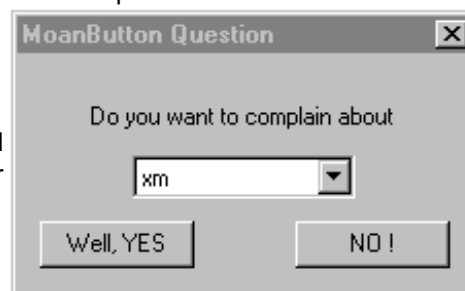
The user only has to make sure that the “moanbtn.dll” is in an accessible path when starting the application (ClearCase users get it automatically in “\GPF\BIN”) – if not the program will run as usually, but without moanbtn-support. If the “moanbtn.dll” has been found you’ll notice a small blue hammer in the system tray:



Whenever you are not satisfied you can double click on it and complain.

To do so, you just have to select the application you are complaining about (if more than one runs with moanbtn-support) and press “Well, YES”.

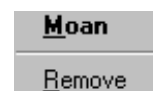
Your standard mail-tool will come up with already fulfilled address and subject fields – you just have to type in your problems.



The complainings will be send to the current developer and hopefully he/she will notice them ...

When clicking with the right mouse key on the hammer symbol you’ll get this menu:

- choosing “moan” will end up with the same effect as the double click
- choosing “remove” will give the user the chance to either remove the hammer symbol for this windows session or forever (this will be marked in the registry)



## 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

- Sometimes the system-tray-hammer might appear twice after quitting one of at least three running mbtn-supporting applications

### 3.2 „Soon implemented“

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### 3.3 „Nice to have“

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## Appendices

### A. Acronyms

<b>DS-WCDMA</b>	Direct Sequence/Spread Wideband Code Division Multiple Access
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### B. Glossary

<b>International Mobile Telecommunication 2000 (IMT-2000/ITU-2000)</b>	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: <a href="http://www.imt-2000.org/">http://www.imt-2000.org/</a> >
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