



**CINTERION**  
WIRELESS MODULES

# TC35i Terminal

**Version:** 03.01  
**DocID:** TC35i Terminal\_rn\_v03.01n



Release Notes

Document Name: **TC35i Terminal Release Notes**

Version: **03.01**

Date: **November 17, 2008**

DocId: **TC35i Terminal\_rn\_v03.01n**

Status: **Confidential / Released**

#### **GENERAL NOTES**

THE PRODUCT INCLUDING THE SOFTWARE PROVIDED BY CINTERION WIRELESS MODULES GMBH ("CINTERION") WITH THE PRODUCT ("PRODUCT") IS DEEMED ACCEPTED BY RECIPIENT AND IS PROVIDED WITHOUT INTERFACE TO RECIPIENT'S PRODUCTS. THE DOCUMENTATION AND/OR PRODUCT ARE PROVIDED FOR TESTING, EVALUATION, INTEGRATION AND INFORMATION PURPOSES.

#### **COPYRIGHTS**

THE SOFTWARE OBTAINED FROM CINTERION TOGETHER WITH THE PRODUCT ("SOFTWARE") IS THE INTELLECTUAL PROPERTY OF CINTERION AND/OR ITS LICENSORS.

#### **LIMITED LICENCE GRANT**

SUBJECT TO THE TERMS AND CONDITIONS IN THIS AGREEMENT, THE RECIPIENT, ITS CUSTOMERS AND END-CUSTOMERS OF THE PRODUCT SHALL HAVE A NON-EXCLUSIVE RIGHT TO USE THE PRODUCT OBTAINED FROM CINTERION. THE RECIPIENT SHALL NOT AND SHALL CONTRACTUALLY BIND ITS CUSTOMERS AND THE END-CUSTOMERS NOT TO TRANSFER, COPY, MODIFY, TRANSLATE, REVERSE ENGINEER, CREATE DERIVATIVE WORKS, DISASSEMBLE OR DECOMPILE THE SOFTWARE OR OTHERWISE USE THE SOFTWARE EXCEPT AS SPECIFICALLY AUTHORIZED BY THE PURPOSE OF THIS AGREEMENT OR BY MANDATORY LAW. CINTERION SHALL BE A THIRD PARTY BENEFICIARY IN THE AGREEMENTS WITH CUSTOMERS AND END-CUSTOMERS REGARDING THE SOFTWARE.

ANY RIGHT, TITLE AND INTEREST IN AND TO THE PRODUCT, OTHER THAN THOSE EXPRESSLY GRANTED TO THE RECIPIENT UNDER THIS AGREEMENT, SHALL REMAIN VESTED WITH CINTERION OR ITS THIRD PARTY LICENSORS.

CINTERION IS NOT OBLIGED TO MAKE THE SOURCE CODE OF THE SOFTWARE AVAILABLE TO THE RECIPIENT.

#### **DISCLAIMER OF WARRANTY**

THE DOCUMENTATION AND/OR PRODUCT ARE PROVIDED ON AN "AS IS" BASIS ONLY AND MAY CONTAIN DEFICIENCIES OR INADEQUACIES. THE DOCUMENTATION AND/OR PRODUCT ARE PROVIDED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, CINTERION FURTHER DISCLAIMS ALL WARRANTIES, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, COMPLETENESS, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF THIRD-PARTY RIGHTS. THIS PRODUCT IS NOT INTENDED FOR USE IN LIFE SUPPORT APPLIANCES, DEVICES OR SYSTEMS WHERE A MALFUNCTION OF THE PRODUCT CAN REASONABLY BE EXPECTED TO RESULT IN PERSONAL INJURY. APPLICATIONS INCORPORATING THE DESCRIBED PRODUCT MUST BE DESIGNED TO BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS PROVIDED IN THESE GUIDELINES. FAILURE TO COMPLY WITH ANY OF THE REQUIRED PROCEDURES CAN RESULT IN MALFUNCTIONS OR SERIOUS DISCREPANCIES IN RESULTS. FURTHERMORE, ALL SAFETY INSTRUCTIONS REGARDING THE USE OF MOBILE TECHNICAL SYSTEMS, INCLUDING GSM AND GPS PRODUCTS, WHICH ALSO APPLY TO CELLULAR PHONES MUST BE FOLLOWED. CINTERION CUSTOMERS USING THIS PRODUCT FOR USE IN ANY APPLICATIONS DO SO AT THEIR OWN RISK AND AGREE TO FULLY INDEMNIFY CINTERION FOR ANY DAMAGES RESULTING FROM ILLEGAL USE.

#### **EXCLUSION OF LIABILITY**

CINTERION, ITS LEGAL REPRESENTATIVES AND VICARIOUS AGENTS SHALL – IRRESPECTIVE OF THE LEGAL GROUND – ONLY BE LIABLE FOR DAMAGES IF THE DAMAGE WAS CAUSED THROUGH CULPABLE BREACH OF A MAJOR CONTRACTUAL OBLIGATION (CARDINAL DUTY), I.E. A DUTY THE FULFILMENT OF WHICH ALLOWS THE PROPER EXECUTION OF THE RESPECTIVE AGREEMENT IN THE FIRST PLACE OR THE BREACH OF WHICH PUTS THE ACHIEVEMENT OF THE PURPOSE OF THE AGREEMENT AT STAKE, RESPECTIVELY, AND ON THE FULFILMENT OF WHICH THE RECIPIENT THEREFORE MAY RELY ON OR WAS CAUSED BY GROSS NEGLIGENCE OR INTENTIONALLY. ANY FURTHER LIABILITY FOR DAMAGES SHALL – IRRESPECTIVE OF THE LEGAL GROUND – BE EXCLUDED. IN THE EVENT THAT CINTERION IS LIABLE FOR THE VIOLATION OF A MAJOR CONTRACTUAL OBLIGATION IN THE ABSENCE OF GROSS NEGLIGENCE OR WILFUL CONDUCT, SUCH LIABILITY FOR DAMAGE SHALL BE LIMITED TO AN EXTENT WHICH, AT THE TIME WHEN THE RESPECTIVE AGREEMENT IS CONCLUDED, CINTERION SHOULD NORMALLY EXPECT TO ARISE DUE TO CIRCUMSTANCES THAT THE PARTIES HAD KNOWLEDGE OF AT SUCH POINT IN TIME. CINTERION SHALL IN NO EVENT BE LIABLE FOR INDIRECT AND CONSEQUENTIAL DAMAGES OR LOSS OF PROFIT. CINTERION SHALL IN NO EVENT BE LIABLE FOR AN AMOUNT EXCEEDING €20,000.00 PER EVENT OF DAMAGE. WITHIN THE BUSINESS RELATIONSHIP THE OVERALL LIABILITY SHALL BE LIMITED TO A TOTAL OF €100,000.00. CLAIMS FOR DAMAGES SHALL BECOME TIME-BARRED AFTER ONE YEAR AS OF THE BEGINNING OF THE STATUTORY LIMITATION PERIOD. IRRESPECTIVE OF THE RECIPIENT'S KNOWLEDGE OR GROSS NEGLIGENT LACK OF KNOWLEDGE OF THE CIRCUMSTANCES GIVING RISE FOR A LIABILITY ANY CLAIMS SHALL BECOME TIME-BARRED AFTER FIVE YEARS AS OF THE LIABILITY AROSE. THE AFOREMENTIONED LIMITATION OR EXCLUSION OF LIABILITY SHALL NOT APPLY IN THE CASE OF CULPABLE INJURY TO LIFE, BODY OR HEALTH, IN CASE OF INTENTIONAL ACTS, UNDER THE LIABILITY PROVISIONS OF THE GERMAN PRODUCT LIABILITY ACT (*PRODUKTHAFTUNGSGESETZ*) OR IN CASE OF A CONTRACTUALLY AGREED OBLIGATION TO ASSUME LIABILITY IRRESPECTIVE OF ANY FAULT (GUARANTEE).

#### **SECRECY**

THE RECIPIENT UNDERTAKES FOR AN UNLIMITED PERIOD OF TIME TO OBSERVE SECRECY REGARDING ANY INFORMATION AND DATA PROVIDED TO HIM IN THE CONTEXT OF THE CONTRACTUAL RELATIONSHIP AND CLASSIFIED AS CONFIDENTIAL OR OTHERWISE RECOGNISABLE AS CONFIDENTIAL, IN PARTICULAR AS TRADE OR COMPANY SECRET AND – AS FAR AS NOT NECESSARY FOR THE ACHIEVEMENT OF THE PURPOSE OF THE CONTRACT – TO NEITHER RECORD NOR FORWARD TO THIRD PARTIES NOR USE IN ANY WAY. EMPLOYEES AND THIRD PARTIES INVOLVED SHALL BE BOUND TO OBSERVE THE ABOVE PROVISIONS.

#### **MISCELLANEOUS**

THE INTERPRETATION OF THIS GENERAL NOTE SHALL BE GOVERNED AND CONSTRUED ACCORDING TO GERMAN LAW WITHOUT REFERENCE TO ANY OTHER SUBSTANTIVE LAW. LEGAL VENUE FOR ALL DISPUTES ARISING FROM THIS AGREEMENT SHALL BE MUNICH, GERMANY. IN THE EVENT OF A CONFLICT BETWEEN THE PROVISIONS OF THIS AGREEMENT AND ANOTHER AGREEMENT REGARDING THE PRODUCT (EXCEPT THE GENERAL TERMS AND CONDITIONS OF CINTERION) THE OTHER AGREEMENT SHALL PREVAIL.

#### **Copyright**

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

Copyright © Cinterion Wireless Modules GmbH 2008

## Contents

- 1 Preamble.....5**
  - 1.1 Related documents.....5
  
- 2 New and Improved Features .....6**
  
- 3 Important Notes.....7**

# 1 Preamble

This Release Note introduces the **TC35i Terminal Release 03.01**. The document describes new and improved features and known issues.

To meet the legal demands according to the European Directives 2002/95/EC (RoHS) and 2002/96/EC (WEEE) the hardware platform of TC35i Terminal has been redesigned with this release. Along with this change, a new power amplifier was introduced. The benefit of the new power amplifier is a more stable current consumption versus antenna impedance. Furthermore, the SIM interface was optimized for electrical testing on the ORGA IT3 platform according to the "3GPP TS 51.010-1" specifications. The general performance regarding compliance with GSM Standards remains unchanged.

Please note that TC35i Terminal Release 03.01 and all later firmware releases cannot be loaded into TC35i Terminals based on the previous hardware releases. Likewise, older firmware (up to Release 02.20) cannot be loaded into the new hardware platform.

## 1.1 Related documents

- [1] TC35i Terminal AT Commands Set, Version 03.01
- [2] TC35i Terminal Hardware Interface Description, Version 03.01
- [3] Remote-SAT User's Guide
- [4] Multiplexer User's Guide
- [5] Multiplex Driver Developer's Guide for Windows 2000 and Windows XP
- [6] Multiplex Driver Installation Guide for Windows 2000 and Windows XP
- [7] Application Note 16: Upgrading TC35i Firmware
- [8] Application Note 24: Application Developer's Guide

For more information please visit the Cinterion Website:

<http://www.cinterion.com>

## 2 New and Improved Features

AT command / feature	Brief description
AT^SCFG, parameter "Call/SpeechVersion1"	This parameter specifies or queries the indication of Half Rate and Full rate support within the bearer capability information transmitted from the terminal to the network. On power-up, priority is given to Full Rate. Alternatively, the Half Rate codec can be preferred or disabled.
AT^SCFG, parameter "Radio/Band"	This parameter specifies or queries the frequency band(s) the TC35i Terminal is allowed to use.
AT^SCFG, parameter CSD/SendLLC	This parameter enables / disables the transmission of the optional LLC information element (Low Layer Compatibility) during mobile originated ISDN data calls.
AT^SCFG, parameter Call/ATS0/CSV	This parameter effects the configuration of Autoanswering set with ATS0. You can choose whether ATS0 applies both to voice and circuit switched data calls, or to circuit switched data calls only.
AT^SNFG Generate Tone	The AT^SNFG command generates local sine tones on the audio interface currently selected with AT^SAIC and AT^SNFS. Up to three different tones can be composed by changing the duration, frequency and amplitude.
AT+CSSN	To meet the demands of 3GPP TS 51.010 test cases the "+CSSI" URC now covers a greater range of notifications for call forwarding.

### 3 Important Notes

AT command / feature	Brief description
AT^SCFG, parameter "AutoExec"	<p>In rare circumstances automatic command execution may fail when the option "wait for all calls have ended" is used. This behavior applies to commands with network dependent activities, such as sending a short message.</p>
SMS storage AT+CPMS	<p>This issue applies only to TC35i Terminals shipped from factory. As specified in [1], the delivery default of the preferred SMS memory storage is "SM" (= SIM card). This default setting is correctly indicated by the read command:</p> <pre>AT+CPMS? +CPMS: "SM",0,30,"SM",0,30,"SM",0,30 OK</pre> <p>Nevertheless, received short messages will be routed to the "ME". So, trying to read from "SM" only returns an empty storage:</p> <pre>+CMTI: "ME",1 AT+CMGR=1 +CMGR: 0,,0 OK</pre> <p>Workaround: To resolve the problem it is necessary to reconfigure the SMS storage of new devices by executing the AT+CPMS write command and switching, only once, to another SMS storage type, e.g. AT+CPMS=x,x,"MT". Afterwards, you can keep the new setting or change it again at any time to set your own preferences.</p> <p>Example 1: To select another SMS storage:</p> <pre>AT+CPMS="MT","MT","MT" +CPMS: 0,55,0,55,0,55 OK # Remember that "MT" is the sum of "SM" and "ME"</pre>