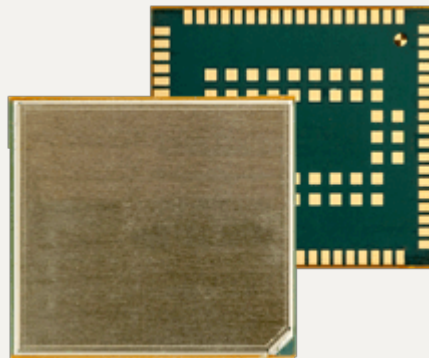


Cinterion[®] EHS6

Release Notes

Version: 02.000
DocID: EHS6_rn_v02.000



Document Name: **Cinterion® EHS6 Release Notes**

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1 Introduction

This Release Note refers to
Cinterion® EHS6 02.000

Cinterion® EHS6 02.000 comes with JRC (Java Maintenance Application) installed when shipped from factory or when updated to the latest firmware. Required for proper operation the JRC should not be changed.

1.1 Related Documents

- [1] EHS6 AT Command Set, v02.000
- [2] EHS6 Hardware Interface Description, v02.000
- [3] DSB75 Support Board Hardware Interface Description
- [4] Multi-Adapter R1 User Guide, v03
- [5] Application Note 17: Firmware Update over the Air, v01

To visit the Gemalto M2M Website you can use the following link:

<http://m2m.gemalto.com/>

2 Newly Added AT Commands

Feature	Brief description
AT^SNMON, "INS"	AT^SNMON "INS" enables the module to scan all supported bands and technologies and to list the cells/operators that can be found on the supported bands. Yet, please note that the output of AT^SNMON is not yet as specified in [1], but will be fixed with the next release to come.
AT^SMONP	AT^SMONP monitors neighboring cells.
AT^SCFG, "Serial/USB/DDD"	Subcommand for customizing USB descriptors.
AT^SCFG, "URC/Ringline"	Subcommand that enables and disables the RING0 line to signalize URCs and specifies the interfaces used for signalization. This feature is intended especially to wake up the host application.
AT^SCFG, "URC/Ringline/Active Time"	Subcommand that specifies how long the RING0 line shall be activated for URC signalization.
AT^SJDL	AT^SJDL allows binary files to be downloaded to or removed from the module's Flash File System. The command has been introduced especially for loading Java applications into the FFS when updating EHS6 firmware.
AT^SFDL=2, FOTA	Firmware Updated over the Air (FOTA) using the module's Flash File System (FFS) is now fully supported. See [5] for detail.
AT^SIND, "Ista" indicators	Indicators designed for Jamming detection. Please note that this feature is already specified in [1], but not yet implemented in Release 02.000.
AT^SCFG, "GPIO/mode/HSIC"	The subcommand AT^SCFG "GPIO/mode/HSIC" designed to enable/disable the HSIC interface (High Speed Inter Chip) is already specified in [1], but not yet implemented in Release 02.000.

3 New and Improved Features

Feature	Brief description
RING0 URC indication	Notification of URCs by means of RING0 line is now working also for ^SIS, ^SISR or ^SISW URCs.
AT+CFUN=4 (Airplane mode)	The command AT+CFUN=4 (Airplane mode) is now non-volatile.
AT^SMONI	AT^SMONI indicates correct LAC cell information for 3G networks.

Feature	Brief description
FTP service	In Polling mode, URCs ^SISW and ^SISR will no longer be output during an FTP server session.
Phonebook	Simultaneous read access to a phonebook, e.g., AT+CPBF and CLIP URC, no longer blocks the module's ASC0 serial interface.
WinMux demo program: +++ escape sequence	The +++ escape sequence is now also effective for PS data calls on Multiplex channels.
AT^SFSA Flash File System	In case the space reserved for user data on the module's FFS is used, any further attempt to write user data to the FFS will now be denied with result code "AT^SFSA: 28" (no free space available) as specified in [1].
AT^SPOW	AT^SPOW settings are now non-volatile.
AT&C1, DCD line	In PPP connections, the DCD line now will go high when data carrier signal is detected, and stay in this state even when switching from data to command mode and vice versa. It goes to low state when data connection is released.
GPIO commands	These commands are no longer supported and documented: AT^SDPORT, AT^SCPORT.
Java AT Command Class	In SMS text mode, the AT Command Class now correctly handles <CR><LF> within a short message body..
Module startup	The handling of the ON signal has been improved. To turn on the module you can use either the ON or the AUTO_ON signal. See [2] for details.

4 Known Issues

Feature	Brief description
Firmware update	EHS6 equal or below Release 01.304 cannot be updated to Release 02.000. If necessary, please contact Gemalto M2M GmbH to get assistance.
Firmware update, AT^SCFG, "Serial/Interface/Allocation", "0", "0": ASC0, USB0, USB3, USB4, USB5 enabled, BB-Trace on USB1, ASC1 disabled.	A firmware update to Release 02.000 restores the delivery default ^SCFG: "Serial/Interface/Allocation", "0", "0": ASC0, USB0, USB3, USB4, USB5 enabled, BB-Trace on USB1, ASC1 disabled.
GSM Speech Full Rate	GSM Speech Full Rate version 5 is currently not supported.
AT^SFSA	The functionality of the AT^SFSA command has not been finally verified.
AT+CSQ	The AT+CSQ command is designed only for use with 2G operation. For 3G networks please use AT^SMONI instead.

Feature	Brief description
AT^SMONI, AT^SMONP	AT^SMONI and AT^SMONP are not yet fully correct: <ul style="list-style-type: none"> During an active connection (Talk / Data mode) AT^SMONI and AT^SMONP do not show all parameters. Unless SIM PIN authentication has been done AT^SMONI and AT^SMONP return "+CME ERROR: operation not allowed". Workaround: To get valid responses before entering the SIM PIN please enter AT+COPS=0 and execute again AT^SMONI and / or AT^SMONP.
AT&C, DCD line	Regardless of the AT&C setting, the DCD line always goes high while the application is reading or writing binary data with AT^SISR, AT^SISW, AT^SFSA "read", AT^SFSA "write".
AT^SISW, AT^SIST	An AT^SISW or AT^SIST write session may be dropped when the remote device does not quickly enough accept all data sent from the module. In this case, the service shall be closed before trying again.
AT^SISR, TCP Socket client	When the TCP socket client is expected to read a large amount of data it may happen that AT^SISR does not return the OK result code, data cannot be received and the module is no longer responding. In this case the module shall be restarted.
AT^SISS, AT^SICS, <alphabet> parameter	The commands AT^SISS and AT^SICS currently do not support the <alphabet> parameter known from other Gemalto M2M modules.
AT+CLCK, AT+CPWD for "PS" lock	"PS" lock is currently not supported and cannot be configured with AT+CPWD and AT+CLCK.
AT^SISS, "SmtP" service	Sending attachments via Google email server is currently not working.
AT^SWDAC	The AT^SWDAC? read command blocks the used AT command interface. Do not execute this command.
URCs after shutdown	In rare cases, it may happen that the final "^SHUTDOWN" URC is followed by an additional buffered URC.
Java debugging	Java debugging is not yet fully functional.

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Gemalto M2M GmbH
St.-Martin-Str. 60
81541 Munich
Germany