CUSTOMER RELEASE NOTE

Firmware v7.2

Reference: WM_PGM_OASIS_CRN_004

Revision: 001

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OPEN AT

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Operating Systems | Integrated Development Environments | Plug-Ins | Wireless CPUs | Services

Document Information

Level	Date	History of the evolution	Writer
001	August 25th, 2008	Creation	DPL

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1 Introduction

1.1 Scope of this Document

The scope of this document is the Open AT® Firmware 7.2 release description for Wireless CPU® series **Q2686, Q2687, WMP100 and FSU.**

Open AT® Firmware 7.2 is a new Firmware, originally based on the **7.1b** version.

1.2 Audience for this Document

This Release note may be distributed to all direct and indirect customers and will be posted on the corporate web site under the Support\Private area.

1.3 Release Feature List

1.3.1 Features List

Features list	Applicable for AT commands users through serial port	Applicable for Open AT® OS users	Alpha stage (unitary tested only)
[Open AT® Firmware]: Power Consumption Improvements	X	X	
[Open AT® OS]:RAM persistence Against Reset		X	
[Open AT® OS]: Improved Guarantied Response Time to Interruption		X	
[Open AT® OS]: UART Direct Access		X	
[Open AT® OS]: RVDS compiler		X	
[Open AT® Firmware]: IDS for host processor	X	X	X
[Open AT® OS]: Up to 64 task management		X	
[Open AT® Firmware]: Full GSM Spectrum Radio Information	X		
[Open AT® OS]: OS Event Handling		X	
[Open AT® Firmware]: C1,C2 and PWR cell information	X		
[Open AT® Firmware]: Credential update over-the-air	X		X

For more details on these features please refer to chapter 7.

1.4 Dedicated Wireless CPU® Versions for Specific Markets

1.4.1 New Product Introduction

As per specific market requirements, additional "countries dedicated" version of Wireless CPU® has been launched

1.4.2 Dedicated Version

As these products are tailored for the dedicated countries, they are locked not to work on any other network but the selected country's available carriers. Obviously Wavecom will perform maintenance on these products in the same way as it is done on other products.

1.4.3 Storage & Marking

For countries dedicated versions, in the Product Code file, the SW Configuration of this version includes the mention "CCx", x depending on the country.
This SW configuration will only appear on the pizza box. A special attention is required to manage the storage, as this SW configuration is the only way to distinguish the product.

1.4.4 Availability

SW versions available on the Wavecom web site are only for not dedicated products.
In order to obtain Software version for updating the products dedicated to specific countries, contact your Wavecom technical support.

1.4.5 Warning

Standard **v7.2** software not tuned for dedicated countries must not be used on Wireless CPU®s that are dedicated to a specific country, as it is not compatible. In this case, the message BAD SOFTWARE is displayed (refer to the AT Command Interface Guide for more information on this message).
This can be undone by re-downloading a compatible version.

1.4.6 Software Behavior

The use of Wireless CPU® for not allowed countries is forbidden. In this case, the message "**SIM NOT ALLOWED FOR THIS MODULE**" is sent, the Wireless CPU® reset and AT SIM commands are then no more possible.

The Wireless CPU® upgrade by using a specific country lock version is not reversible. Effectively, all Wireless CPU®s upgrade performed by using such a version won't be able to use previous software version. In this case, a message "**BAD SOFTWARE**" will be displayed.

2 Related Documents

[1]	**Open AT® Firmware v7.1b AT Commands Manual**	**WM_DEV_OAT_UGD_059-010**
[2]	**Product Technical Specification for WMP100**	**WM_DEV_WUP_PTS_005-004**
[3]	**Customer Design Guidelines for WMP100**	**WM_DEV_WUP_PTS_005-004**
[4]	**Product Technical Specification for Q2687**	**WA_ENG_Q2687_PTS_001-003**
[5]	**Customer Design Guidelines for Q2687**	**WM_DEV_WUP_PTS_005-002**
[6]	**Product Technical Specification for Q2686**	**WM_PRJ_Q2686_PTS_001-007**
[7]	**Customer Design Guidelines for Q2686**	**WM_PRJ_Q2686_PTS_003-004**
[8]	**Open AT® OS v6.02 ADL User Guide**	**WM_DEV_OAT_UGD_060-009**
[9]	**Tutorial for Open AT® IDE v1.07**	**WM_DEV_OAT_UGD_044-005**
[10]	**Tools Manual for Open AT® IDE v1.07**	**WM_DEV_OAT_UGD_045-005**
[11]	**Plug and Play Wireless CPU® -- FASTRACK Supreme User Guide**	**WA_DEV_Fastrk_UGD_001_004**

3 Abbreviations and Definitions

Abbreviation/Acronym	Description
FSU	Fastrack Supreme
SDK	Software Development Kit
UGD	User Guide
WM	Wavecom
WMP	Wireless Micro Processor
WPK	Wavecom PacKage

4 Hardware Compatibility

4.1 Wireless CPU® Compatibility

Firmware Version	Wireless CPU® compatibility list
7.2/R72	WMP 100
7.2/R72	Q2687
7.2/R72	Q2686
7.2/R72	FSU

5 Software Release Description

5.1 Release Identification

	Wireless CPU® – WMP100/Q268x/FSU - Series
Date of generation	**07/08/2008 17:49**
Software identification	**R72_00gg.WMP100** **32/8** Mbits **R72_00gg.WMP100** **32/16** Mbits **R72_00g.WMP100** **64/16** Mbits **R72_00gg.Q2686** **32/16** Mbits **R72_00gg.Q2687** **32/16** Mbits **R72_00gg.Q2686** **64/16** Mbits **R72_00gg.Q2687** **64/16** Mbits **R72_00gg.FSU001** **32/16** Mbits **R72_00gg.FSU002** **32/16** Mbits **R72_00gg.FSU003** **R72_00gg.FSU004** **R72_00gg.FSU005**
IMEISV	**WMP100** **0x12** **Q2686** **0x23** **Q2687** **0x23** **FSU** **0x23**
Checksum	**0x67 E2 DA CF**
Binary Size	2046020
Flash type	**32/8** Mbits / **32/16** Mbits / **64/16** Mbits
Open AT® version	**OASiS 2.10**
Xmodem downloader	**V08b06**
New Firmware based on release	**V7.1b**

5.2 Released Files & Download Processes

This section describes the process to upgrade your current Wireless CPU® with Open AT® Firmware 7.2

5.2.1 Download processes

Download processes are possible through DWLwin tool, X-modem and DOTA2. But, download process through DWLwin is recommended to upgrade Wireless CPU® with Open AT® Firmware 7.2 because it is easier.

5.2.1.1 Download procedure with DWLwin

The Wireless CPU® can be upgraded thanks to the DWLWin v4.1.6.6 tool or further according to the following procedure. The dongle usage is not required to execute this

procedure if a software is already loaded into the flash, but the dongle usage is mandatory for a blank flash driven by Wireless Microprocessor®.

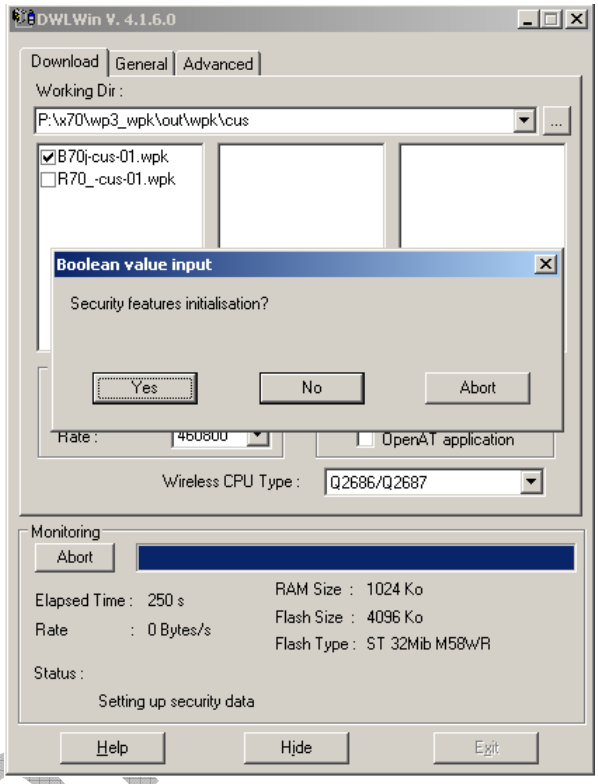
1) Set DWLwin parameters:
    a. Select the right WPK package to download:
        i. R72_00-cus-wmp-01.wpk for WMP family
        ii. R72_00-cus-q26-01.wpk for Q26/Fastrack family
    b. Select erase "Objects"
    c. Select erase "Open application"
    d. For "Customization files":
        i. Do NOT select erase "Customization files" if you use a Wireless Microprocessor® with a blank flash (dongle required)
        ii. Otherwise, select erase "Customization files" (dongle not required)
2) Start the download
3) To the question : "Please select the Wireless CPU type ?", select the right Wireless CPU® (if necessary, use ATI3 command to find the right one)
4) In case of Wireless Microprocessor® with dongle usage, you will have the following question : "Do you want to active security features ?"
    a. Answer "Yes" if your want to active the security features or change their parameters. Refer to "Activation of security features" chapter
    b. Answer "No" neither
5) To the question : "Do you want to resize A&D DOTA volume ?"
    a. Answer "Yes" if you expect to use A&D zone. Refer to "A&D zone initialization" chapter
    b. Answer "No" neither
6) To the question : "Do you want to customize the flash object area (ADL flash API) ?", answer "No"
7) To the question : "Do you want to download the firmware ?", answer "Yes"
8) In case of Wireless Microprocessor® without IMEI and with dongle usage, you will have the following question: "Do you want to program the IMEI ?"
    a. Answer "Yes" if you want to program a new IMEI. Refer to "IMEI programming" chapter
    b. Answer "No" neither
9) In case of Wireless Microprocessor® with dongle usage, you will have the following question: "Do you want to program the firmware's feature ?", answer "No"
10) The download is processed

This procedure is resetting some configuration parameters (like GSM bands for example) which shall be manually reset thanks to classical AT or Open AT® APIs.
The package won't download the firmware if it's already in flash.

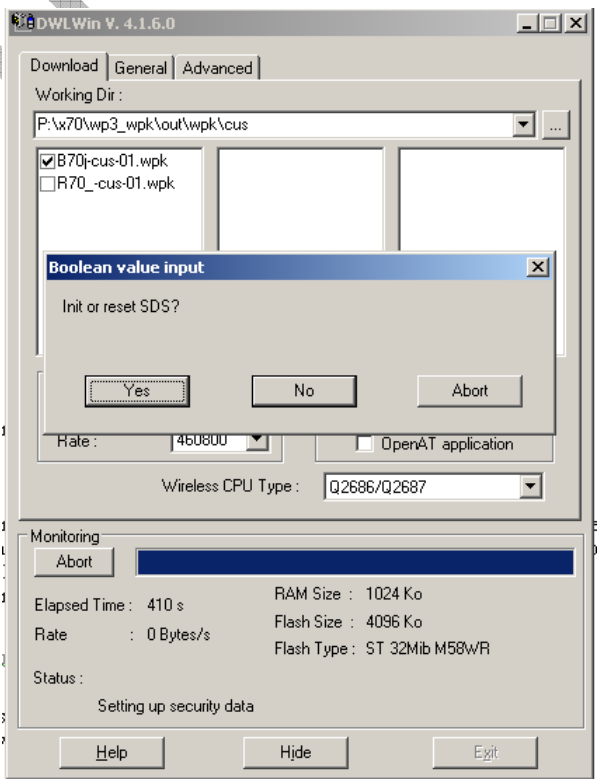
Open AT® application built with a previous version than Open AT® Software Suite 2.10 has to be rebuilt with Open AT® Software Suite 2.10.

Activation of security features

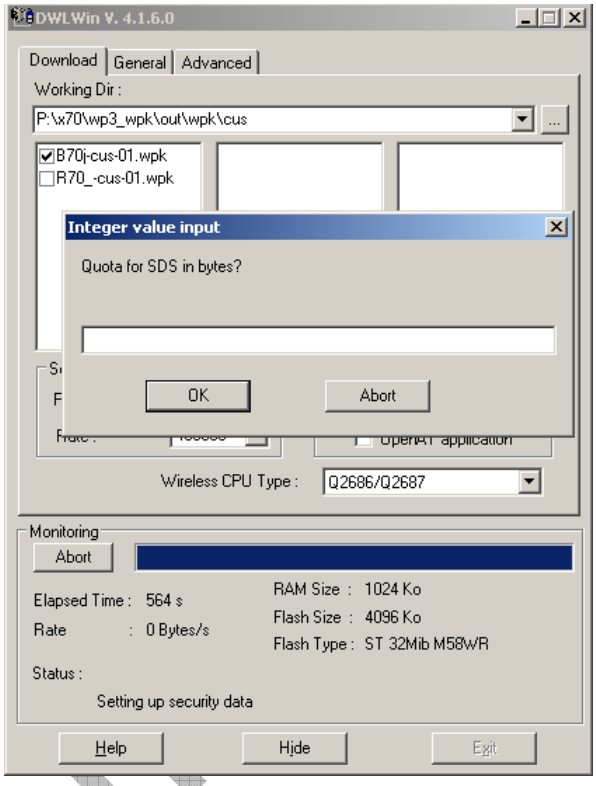
The package will ask for the Security feature initialization.
If you do not want to initialize this feature, to click on "No, allows you to bypass all action related to Security Features



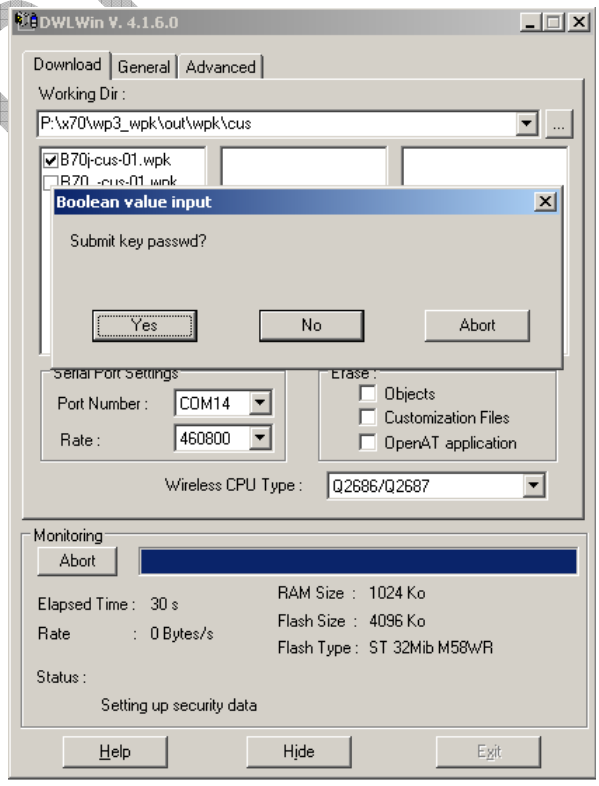
If you select "Yes" for Security features initialisation, then the package will ask for Init / reset SDS.
If you do not want to init or reset SDS (Security Data Storage), choice "No", in the other case click on "Yes" and SDS will be reset



If you have chosen to reset SDS, then the package will ask for "Quota for SDS in bytes" you want to reserved.

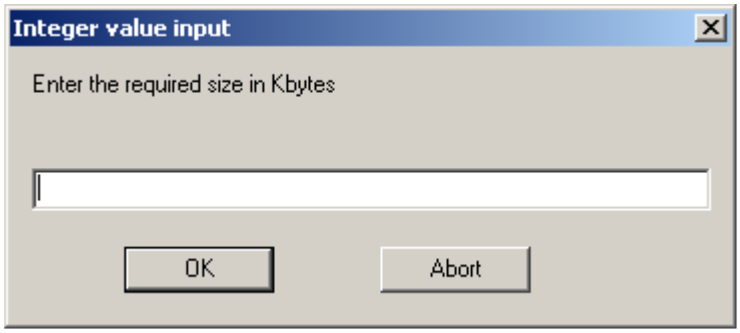


Then the package will ask for Submit a key password (a password mechanism can be setup to prevent illegal modification of the public key).
If you select "Yes", then the package will ask for Change Password or enter a new password.



A&D zone initialization

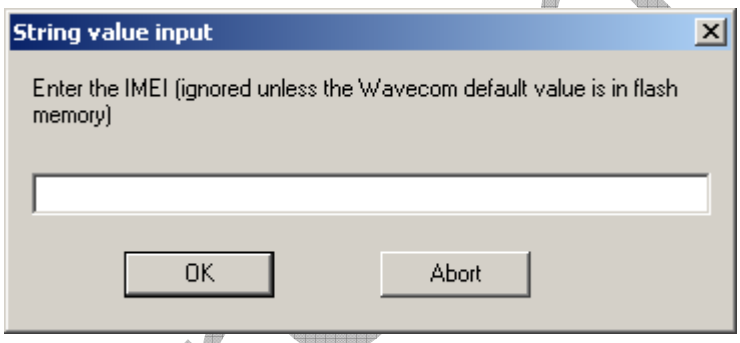
Then the package will ask for the required size with the same format as the <A&Dsize> parameter in AT+WOPEN=6 command. See [1] for more information.



Modifying the memory configuration using the AT+WOPEN=6 command can be a quite long operation.
This step can be performed faster through the automation interface (OLE/COM interface): set an integer extra option named "DOTA_VOLUME_SIZE" whose value should be the requested size in Kbytes. See [2] fro more information.

IMEI programming

The package will ask for entering the IMEI (15 digits)



It can only overwrite once the default IMEI value. A try of new overwrite won't generate an error message, but it will not work.

5.2.1.2 Download procedure through X-modem

This procedure is not applicable for Wireless Microprocessor® with blank flash. The objects and DOTA data are not erased. And the size of the DOTA area and the size of the object areas remain the same.

1. Upgrade the bootloader: Type "AT+WDWL", wait for the NACK characters, and send the porting downloader named dwl_port.dwl by the X-modem protocol.
2. Type "AT+CFUN=1" in order to take into account the new downloader.
3. Upgrade the Open AT® Firmware: Type "AT+WDWL", wait for the NACK characters, and send the specific dwl upgrade file named

migrate_R72_full_xxx.dwl (choose the right file according to the Wireless CPU® and the previous Open AT® Firmware used) by the xmodem protocol. Then send the new application if needed.

4. Type "AT+CFUN=1". The customer application has to be restarted (AT+WOPEN=1) if needed.

Open AT® application built with a previous version than Open AT® Software Suite 2.10 has to be rebuilt with Open AT® Software Suite 2.10.

Configuration Required for Download

In order to download the FW by using the 1K-Xmodem protocol, the following configurations and conditions have to be set:

- Create an Hyper Terminal connection on COM port with following parameters:
  - *Bit/Second* ***115200***
  - *Data Bit* ***8***
  - *Parity* ***None***
  - *Bit Stop* ***1***
  - *Flow Control* ***Hardware***
- A version of AT software must be already downloaded on the Wireless CPU®.
- Download speed can be set up to 115200 baud.

Warning: activating the Hardware Flow Control is mandatory when downloading via 1K-Xmodem, otherwise download may fail.

5.2.1.3 Download procedure through DOTA2

Special care is required for DOTA2. The customer must ensure that there is enough place left: at least the size of the migration package + size of the new customer application. DOTA2 can't be used with 32 Mbits flash.

For a 64 Mbits flash and only for OASIS 2.0, the condition is :
80 – (number of flash sectors of the new application + number of flash sectors of the DOTA area) >= 1

Note : Retrieve the DOTA2 size by typing "AT+WOPEN=6". The flash sector size is 0x10000 bytes.

The upgrade of the firmware and the customer application must be done at the same time. The new customer application must be concatenated with the migration package ("cat migration_package.dwl new_application.dwl > new_migration_package.dwl").

First, download in DOTA area the migration downloader and install it.

Then download in DOTA area the migration package and install it.

5.2.2 Downgrade processes

The downgrade procedures are not available.

5.3 Software Tools Version

This section gives the last Wavecom tools versions.

S/W Tools Name	Version
Target Monitoring Tool (TMT)	2.9.7
TMT Workspace	B72n00gg.p521x_64k.wks
Dwlwin downloader	Dwlwin 4.1.6.6

6 Software Description

The *Severity* values have the following meaning :

- 1 : Critical
- 2 : Major
- 3 : Minor
- 4 : Improvement

6.1 Corrections Impacting Firmware Interface or Behavior

This section gives the list of all corrections or improvements integrated in Open AT® Firmware 7.2 and that can be found on the Firmware 7.1b.

All these modifications can impact the interface or introduce behavior modifications comparing to the v7.1b and by extension, all versions with similar behavior (compare to the Release Note and the AT User Guide of your current version for more information about what has changed from your version).

Caution: in that case, items hereafter might not list exhaustively the possible interface breaks between your current version (if not v7.1b) and this v7.2. For more information, refer to release notes of various versions between your current version and version v7.2.

Items are sorted by Impacted Domain (alphabetic order), Impacted Sub Domain (alphabetic order) then Severity (increasing).

Id	Description (What / When)	Impacted Domain	Impacted Sub Domain
ANO47185	When an alarm is set by AT+CALA to a date different than the current date, the alarm doesn't occur.	AT	OTHER
ANO40743	A Wireless CPU® reset occurs in the following scenarios: - When "ME" extended phonebook entry is read using AT+CPBN or AT+WPGR command with selected phonebook as "MT". - When "ME" extended phonebook entry is read using AT+WPGR command with selected phonebook as "SM".	AT	PHONEBOOK
CUS47597	When the phonebook characters are configured to HEX or CUSTOM with AT+WPCS command and the configuration is saved with AT&W, the Wireless CPU® always reboots after the execution of AT+STGI=0.	AT	STK

Id	Description (What / When)	Impacted Domain	Impacted Sub Domain
ANO41985	When a setup call proactive command is performed and the call is released before the connection, no terminal response is sent to the SIM.	AT	STK
CUS41988	When CMUX protocol is launched on one port and auto answer is set using ATS0 command on a logical port, during an incoming call, the Wireless CPU® resets. The Wireless CPU® should not reset and the incoming call should be automatically accepted.	DEVICE	CMUX
ANO47032	When using the opcode and/or address fields of the SPI bus API, a freeze may occur. E.g. using Ethernet over SPI driver, the Ethernet bearer stucks after few minutes. Workaround: manage the CS by the hand and divide an access with opcode and/or address in 2 writes (for a write) or 1 write and 1 read (for a read) For example: opcode size = 8, address size = 16 write or read(opcode = 0x22000000,address = 0x15690000,data[n] = { ... }) become assert CS write(no opcode, no address, data[3] = {0x22,0x15,0x69}) write or read(no opcode, no address, data[n] = {...}) remove CS This is only possible if the opcode or address size is a multiple of the data size.	DEVICE	IOB
ANO47298	The IDS feature doesn't work with a delta patch having size greater than 65kB.	N/A	N/A
ANO48668	it is not possible to manage 2 devices (using CS2 and CS3) on the parallel bus.	OTHER	OTHER
ANO49764	After a DOTA2 update, the customer application is not activated.	N/A	N/A

6.2 Other Interface Changes

Some other changes have been performed on the following commands. Please refer to the [1] *AT Commands Interface Guide* for more information.

6.2.1 New AT Commands

This part lists the commands that have been added in the Open AT® Firmware 7.2. For more information, refer to the command description in [1].

Command	Comment
AT+WDSA	The new AT+WDSA command allows a user to change the account used to establish connections to the IDS server.
AT+WDSH	The new AT+WDSH command allows the host application to use the update mechanism provided by IDS by using the 1k-XModem protocol.

6.2.2 Updated AT Commands

This part lists the commands that have been modified in the Open AT® Firmware 7.2. For more information, refer to the command description in [1].

Command	Comment
AT+CCED	The AT+CCED command has been updated to extend the main and neighboring cells dump with C1, C2 and a power control level parameters.
AT+CFUN	The AT+CFUN command has been updated to allow to set the MT full functionality without reseting the WCPU.
AT+WADF	The AT+WADF command has been updated to add 2 new filters named FIR and FIR2. These filters depend on the hardware platform.
AT+WBHV	The mode 6 of the AT+WBHV command, which allows to set the DTMF blank duration for DTMF decoding feature, has been updated to allow to set this duration in step, like previous software, but also directly in millisecond.
AT+WDSC	The AT+WDSC command has been updated to add a new mode allowing the configuration of the retry mechanism used when an error occurred during a connection to the IDS server
AT+WDSI	The AT+WDSI command has been updated to return an indication about the kind of parameter that has been provisioned.
AT+WOPEN	Due to the change of the Open AT® link address, the size of the A&D has been changed.
AT+ADC	The AT+ADC command has been updated to return the level of the analog input signal converted in mV (like all other firmware) or also direcly in digital value corresponding to ADC result register value.

6.2.3 Deprecated AT Commands

This part lists the commands that are no more available in the Open AT® Firmware 7.2.

None.

6.3 Architecture Changes

The internal architecture of the Open AT® Firmware has been enhanced to provide an abstraction layer for all Wireless CPU® series. This adaptation layer is transparent for the User but it contributes to provide new services as described in section 7 below and to make Open AT® Applications compatible from a Wireless CPU® series to another.

7 Feature Description

This section lists the features of OASiS 2.10 Open AT® Firmware 7.2.

7.1 [Open AT® Firmware]: Power Consumption improvements

On Open AT® Software Suite 2.10, the GSM stack can be enabled or disabled without resetting. This allows to switch easily and quickly the Wireless CPU® between different power consumption profiles without executing several boot sequences.
Moreover, the power consumption in SLEEP mode has drastically been improved up to 380 µA.

7.2 [Open AT® OS]: RAM persistence against reset

This feature allows to declare in the Open AT® application some variables which will not be initialized after a hardware or software reset of the Wireless CPU® (e.g. AT+CFUN=1, watchdog reset…). This RAM part is cleared only when the power supply is turned ON or when a re-download occurs (locally through X-modem or remotely through IDS).

7.3 [Open AT® OS]: Improved Guarantied Response Time to Interruptions

For external interruptions and TCU (Timer and Capture Unit) services, Wireless CPU® provides a new level of interruption which guaranty a latency up to 20µs.

7.4 [Open AT® OS]: UART Direct Access

This feature gives a direct access to UART low level API including UART interruption handler.
The write API call (TX byte transmission) is immediately taken into account by the UART hardware block.
The read API call back (RX byte reception) benefits from the standard latency time guarantied by the Open AT® OS: 600µs.
Moreover, all UART signals (RTS, CTS, DTR, DSR, DCD, RI) can separately be handled.

7.5 [Open AT® OS]: RVDS compiler

In addition to ADS and GCC compilers already supported, the Open AT® Software Suite 2.10 supports also the last RVDS compiler provided by ARM.

7.6 [Open AT® Firmware]: IDS for host processors

When a processor is driving the Wireless CPU®, the software of this processor could be upgraded over-the-air thanks to the IDS (Intelligence Device Services) portal as the Wavecom software. Then, this allows IDS customers to manage upgrade campaigns for devices which include a main processor close to the Wireless CPU®.

7.7 [Open AT® OS]: Up to 64 tasks management

The Open AT® OS allows to manage multitasking up to 64 tasks.

7.8 [Open AT® Firmware]: Full GSM Spectrum Radio Information

This feature allows to closely monitor the GSM network. (Related to Jamming Detection). all Cell ID, MCC, MNC, RSSI information shall be available for all cells detected during a full scan.

7.9 [Open AT® OS]: OS Event Handling

This feature allows to have a synchronization between tasks.

7.10 [Open AT® Firmware]: C1,C2 and PWR cell information

AT+CCED is extended to report supplementary cell information on C1,C2 and PWR (power level)

7.11 [Open AT® Firmware]: Credential update over the air

MNW Agents is remotely activated by Wavecom Device Manager Server at customer request.

8 Certification Compliance

8.1 GCF-CC & PTCRB

The following table sums up the certifications passed for this software version.

	GCF-CC	NAPRD.03
WMP100	v3.30.1	v4.1
WMP150	v3.30.1	v4.1
WMP50	v3.30.1	v4.1
Q2687	v3.30.1	v4.1
Q2687 Classic	v3.30.1	v4.1
Q2686	v3.30.1	N/A

8.2 Bluetooth

Not Applicable.

9 Additional Information / Restrictions

This section lists additional information or restrictions that must be taken into account regarding the Open AT® Firmware 7.2.

Id	Description (What / When)	Impacted Domain	Impacted Sub Domain
ANO49839	Reset can occur when a call disconnection is performed while a handover procedure is on progress.	GSM	RR
CUS49525	When an Open AT application tries to write in FLASH, if an other task is scheduled which modifies the FLASH space memory, then adl_flhWrite() function may return ADL_FLH_RET_ERR_MEM_FULL or ADL_FLH_RET_ERR_NO_ENOUGH_IDS error	OTHER	OTHER
ANO49559	Using AT+W32K=1,0 and AT+CMUX AT commands to authorize Slow idle mode on enabled CMUX com port and ignoring DSR state, the WCPU does not enter low power mode.	DEVICE	MUX
CUS49667	Packet PDCH Release not correctly managed during two phases access. This case leads in a GPRS blocking state.	GPRS	OTHER
ANO49761	IDS Sample not functionnal with ADS or RVDS compilation.	OTHER	OTHER
ANO49979	[AT+WADS] "D" decoded as a "A".	(None)	(None)
CUS50008	Response of ATA command is not received when the ATA and call disconnection(ATH) command at the peer end are issued simultaneously after a successful call is made and hooked. The issue is reproducible when before receiving a call confirmation message from the network at the called end the call is disconnected from the calling end. Also the response to the next AT command includes the buffered response for ATA command which was not received.	AT	OTHER
ANO49255	WCPU is re-registered to a bad plmn after it has lost network (it was manually registered)	AT	OTHER
CUS50068	JTAG instable	(None)	(None)
ANO49789	[IDS][Provisioning][OAT] Difficulties for reading OAT provisioned values, callbacks called twice	Embedded RDMS	RDMS
ANO50011	The LAC is properly displayed when using the Radio Spectrum Monitoring channel interface for OpenAT applications.	OTHER	OTHER
ANO50052	[IDS][Provisioning][Prefered PLMN] Some entries of prefered PLMN list are not displayed	Embedded RDMS	RDMS

Id	Description (What / When)	Impacted Domain	Impacted Sub Domain
ANO50051	When a RDMS context activation is asked during a RDMS context deactivation, it is not possible to activate this context anymore	Embedded RDMS	RDMS
ANO49916	[REG][ILRR] After having activated the autobauding, and making a CSD call, incorrect +ILRR response is returned.	(None)	(None)
CUS49937	When an openAT application closes all the physical ports, the WCPU doesn't restart at the next reboot.	AT	OTHER
ANO49965/ 49966	After a DOTA2 update, the customer application is not activated. it concerns only OASIS >= 2.01 and not the migration packages.	OTHER	OTHER
ANO49316	[OASiS 2.10 / WPK] : Problems when resizing the A&D Dota volume at work package installation	(None)	(None)
ANO49857	Wireless CPU sends a NO CARRIER indication instead of OK response in case GPRS session is terminated by DTR drop.	GPRS	OTHER
ANO49719	[OASiS 2.10 / A&D Size] : When the Device Services are in prohibited state, 256 kbytes are still reserved in Flash	(None)	(None)
CUS49753	[USB] WCPU does not enter slow Idle mode when USB adaptor is plugged in only with power	(None)	(None)
ANO48617	If a user send or write the SMS with DCS as default GSM and store it in ME memory, then the SMS data when read is not displayed correctly. The bytes in the user data field got changed. This problem is not reproducible when SM memory is used.	AT	SMS
ANO48794	AT+CPIN command gives +CME ERROR : 3 instead of OK in case a Valid SIM is inserted again once the Network Lock is activated for a valid SIM (containing MCC-MNC in the ME list) using AT+WLCK command and the SIM is removed to replace it with invalid/incorrect/bad SIM.	SIM	OTHER
ANO48947	AT+COPS command returns 'ERROR' after AT+CPOL command is used to write to Preferred Operator list with the PLMNsel file being Read Only. Also, the PLMN list shows the list to be updated even if the PLMNsel file is not updated.	AT	OTHER
DEV50100	Credential update over the air is not functional in Beta version	Embedded RDMS	RDMS