

***Release Note  
Summary for X.41b  
to X.44 OS***


**PRELIMINARY**

Reference : **WM\_DEV\_OAT\_DVD\_02**

Version : **001**

Date : **11<sup>th</sup> January 2006**

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Level	Date	History of the evolution	
001	11 <sup>th</sup> January 2006	Created	Wavecom Services Consultant

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# 1 Introduction

## 1.1 Scope of this document

The scope of this document is the **X.44 OS** description for WISMO Quik series **Q2400A, Q2406A, Q2406B, Q2406E, Q2426B, Q3106A and Q3106E** modules. This document summarizes also the evolutions between **X.41b** and **X.44 OS**.

## 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 Main Features Reminder

Features list
<b>Product Features</b> <ul style="list-style-type: none"><li>- Dual Band EGSM/GPRS module (EGSM 900/1800 MHz, EGSM 850/1900) designed for M2M and automotive applications</li><li>- Compliant with ETSI GSM Phase 2+ standard<ul style="list-style-type: none"><li>Class 4 (2W @ 900 MHz)</li><li>Class 1 (1W @ 1800 MHz)</li></ul></li></ul>
<b>Voice Features (GSM mode)</b> <ul style="list-style-type: none"><li>- Telephony, Emergency calls,</li><li>- Full Rate, Enhanced Full Rate, Half Rate (FR/EFR/HR)</li><li>- Echo Cancellation and Noise Reduction</li><li>- Full Duplex hands free</li></ul>
<b>Data Features</b> <ul style="list-style-type: none"><li>- Data circuit asynchronous, transparent and non transparent up to 14400 bits/s</li><li>- Fax Group 3 (Class 1 and 2)</li><li>- GPRS packet Data Features</li><li>- GPRS Class 10</li><li>- Coding Schemes: CS1 to CS4</li><li>- PBCCH Support</li></ul>
<b>Message Services</b> <ul style="list-style-type: none"><li>- SMS point to point (MT/MO) and Cell Broadcast</li></ul>
<b>GSM Supplementary Services</b> <ul style="list-style-type: none"><li>- Call Forwarding, Call Baring</li><li>- Multiparty</li><li>- Call Waiting, Call Hold</li><li>- USSD</li></ul>
<b>Additional Protocols</b> <ul style="list-style-type: none"><li>- IP connectivity (TCP/IP with TCP/UDP sockets, POP3, SMTP, FTP)(*)</li></ul>

(\*): Available as an option.

### 1.3.2 New Features / Evolutions

Features list	OS
SIM Speed Enhancement Activation SIM Toolkit	X41c
ADC behavior change WSHS command	X42
Echo cancellation new Algorithm 6 +WTONE Update (2 frequencies allowed)	X43
Specific Country Lock implementation Scratch memory interface modification	X43a
Extended phonebook management	X43c
New Flash Introduction on Q2400A and Q2406A.	X44

## 1.4 Dedicated versions for Specific Markets (From version X.43a)

### 1.4.1 New product introduction

As per specific market requirements, additional "countries dedicated" version of module 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. These products will not be compatible with the former SW versions on the branch (refer to 5.1.). Obviously Wavecom will perform maintenance on these product 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 X.44 software not tuned for dedicated countries must not be used on modules 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

Specific country lock feature aims at locking a module use to a pre-determined list of countries.

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

⇒ The module upgrade by using a specific country lock version is not reversible. Effectively, all modules 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] AT Commands Interface Guide for revision X44	<a href="#">WM_ASW_OAT_UGD_00010-011</a>
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PRELIMINARY

### **3 ABBREVIATIONS AND DEFINITIONS**

UGD : User Guide  
WM : Wavecom

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## 4 Hardware Compatibility

### 4.1 Module Compatibility

X44 Software Version	Module Compatibility List
6.44	Q2406B Q2426B Q2406E
5.44	Q2406A Q3106A Q3106E
3.44	Q2400A Q3106A

## 5 Software release description

### 5.1 Release identification

WISMO Quik – Q3106X, Q2400X and Q24X6X - Series			
Date of generation	December 27, 2005		
Software identification	644_09gg.Q2406B	32/4 Mbits	GPRS + Open AT® ftr
	644_09gg.Q2426B	32/4 Mbits	GPRS + Open AT® ftr
	644_09gg.Q2406E	64/4 Mbits	GPRS + Open AT® ftr
	544_09gg.Q3106A	16/2 Mbits	GPRS ftr
	544_09gg.Q2406A	16/2 Mbits	GPRS ftr
	544_09gg.Q3106E	64/4 Mbits	GPRS ftr
	344_09gm.Q2400A	16/2 Mbits	GSM only + Open AT® ftr
	344_09gm.Q3106A	16/2 Mbits	GSM only + Open AT® ftr
IMEISV	22		
Checksum	6.44		N/A
	5.44		N/A
	3.44		N/A
Flash type	16/2 Mbits (type A) 32/4 Mbits (type B) 64/4 Mbits (type E)		
Xmodem downloader	2.16		
Previous Official Release on the Branch	X43c		
Open AT® Version	2.12		

## 5.2 Released Files & Download Processes

This section describes the files that need to be downloaded on the module by using HyperTerminal download software (X-Modem protocol) or DwlWin Wavecom tool.

### 5.2.1 X-Modem download mode

#### 5.2.1.1 X-Modem configuration required for download

In order to download the FW by using the X-Modem 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 module

#### 5.2.1.2 Common Files required for download

The file to download depends on the HW platform. This file has the following name:

- **X44\_<Module\_Type>.dwl**

The content of this file is the following:

- Downloader,
- 6.44 binary version,
- E2P configuration specific to <Module\_Type> module.

Ex: 644\_q2406b.dwl is the file to download on a module Q2406B.

#### 5.2.1.3 Download procedure

The following procedure has to be performed in order to download the FW in the module:

- Connect the Starter Kit on this COM port and start the module.
- Enter "at<CR>" on the Hyper Terminal windows. Module has to answer:  
"OK"
- Check the current downloader (dwl) on the module side. It must be the same or compatible to the embedded one in the new binary (see the Xmodem downloader version in the table paragraph 5.1).

*NB: To recall the current dwl version, enter "at+wdwl?<CR>" on the Hyper terminal. The module answers:*

*" +WDWL: V<downloader version> "*

*If existing downloader is not the good one, the new downloader has to be reloaded first. In order to download it, use the following process and select "dwl.dwl" as file to download. When download is*

*completed and the module has been reset, repeat the following procedure to download the new AT binary.*

- Enter "at+wdwl<CR>" to start the download. Module has to answer:  

```

"+WDWL: 0
|||||....."

```
- Enter menu "Transfer/Send a file"
- Select protocol: "1k Xmodem"
- Select the *dwl* file to download.
- Validate so that the download starts.
- When new characters "█" are received, the download is finished.
- Reset the module by using the command "AT+CFUN=1" and wait for the "OK" answer.

**5.2.2 DwlWin download mode**

**5.2.2.1 DWLWin configuration required for download**

Before launching the download process, the DwlWin tool has to be configured as following:

- Select CPU type field according to the module series:
  - **WISMO 2-3** For Q24 and Q31 series module
- Select Erase objects option

**5.2.2.2 Common Files required for download**

The E2P parameters to download depend on the HW platform. For this reason, two files must be downloaded for E2P parameters:

- **pro-dwl.wpb** (Binary)
- **w.e2p** (Generic E2P file)
- **<Module> <FlashType>.e2p** (module specific E2P file)  
For example: 'q2406b.e2p' for Q2406 module with flash type B (32/4)

**Warning:** All these files must be downloaded at the same time.

**5.2.2.3 Download procedure**

Refer to DwlWin Help provided in the DwlWin tool.

**5.3 Software Tools Version**

This section gives the Wavecom tools versions to be used with the present SW release.

S/W Tools Name	Version
DwlWin Downloader	v3.3.9.4
Dev Tool Kit	v2.7.7
TMT Workspace	B44b09gx.v13_64k.wks

## 6 Software Description

The following table shows the feature availability depending on the SW version.

	3.44	5.44	6.44
GPRS Class 10	No	Yes	Yes
Open AT®	Yes	No	Yes
TCP/IP	No	No	Yes <sup>(*)</sup>

(\*): Available as an option.

The *Severity* values have the following meaning:

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

### 6.1 Validated Corrections/Improvement

This section gives the list of all corrections or improvements integrated in the X.44 version from the X.41b version.

#### 6.1.1 Validation in OS X.41c

Id	Description (What / When)	Impacted Domain	Impacted Sub Domain	Severity*
25158	The module displays CME ERROR: 515 while using SIM cards that do not support the phonebook entries of more than 20 digits. Module enters into a invalid state and no phonebook commands can be used.	AT	N/A	1
25173	AT+CPBW=? and AT+CPBR=? commands display that a phonebook entry of 60 digits can be entered even if SIM does not support the entry of more than 20 digits.	AT	N/A	1
23977	When TON/NPI is set to 255, phonebook entries are displayed as blank string after reset. When FDN is active, making a call to a number not in the FDN list succeeds as empty string acts like a wildcard.	AT	N/A	2
25171	The AT+CPBP command returns CME ERROR: 3 for an entry greater than 20 digits. Long phonebook entries up to 60 digits are supported for phonebook commands.	AT	N/A	2
25148	In some conditions, AT+CGACT? returns 0 although the PDP context is not fully deactivated. In this case, the following PDP context activation is failed.	AT	OTHER	1

25150	Impossible to dial emergency numbers present in SIM EF_ECC .	AT	OTHER	1
25103	Systematic reset with a SunCom SIM card using 250 preferred PLMN after entering PIN code due to memory overflow .	AT	OTHER	2
21885	AT+CGATT=1 returns OK to a GM_SERVICE_IND message with "No Service" and "No Network cause", instead of +CME ERROR: 148	AT	OTHER	3
25149	Update of the PLMN list with SE13 May 11, 2004 and NAPRD 2.6.2	AT	OTHER	3
25472	When 60 digit numbers are stored in FD phonebook and deleted afterwards, the records are not deleted completely. EXT2 contents are not erased.	AT	PHONEBOOK	1
25473	When 60 digit numbers are dialed, AT+WDCP="LD" does not delete the LND records completely. EXT1 contents are not erased.	AT	PHONEBOOK	1
25741	atd>(index); command can't use phonebook records with more than 32 digits.	AT	PHONEBOOK	1
26184	After SIM exchange from different network provider, module returns CME ERROR: 515 when user try to access ADN.	AT	PHONEBOOK	1
25458	When free EXT1 records are not available, +CME ERROR: 26 is returned on dialing a 60 digit number, expected is +CME ERROR: 20?	AT	PHONEBOOK	2
25740	When EN phonebook is selected and another SIM is inserted which does not have EN phonebook, any phonebook related command returns "+CME ERROR: 3".	AT	PHONEBOOK	2
25822	When PIN2 is already validated (+CPIN2: READY) then AT+CPBS="FD", PIN2 replies OK instead of +CME ERROR: 3	AT	PHONEBOOK	2
26144	ATD command returns +CME ERROR: 20 when phone number is composed by 20 digits and preceded with '+' international indicator	AT	PHONEBOOK	2
23596	Entries in ADN phonebook are limited to 20 digits while using phonebook related commands. ATD and phonebook commands like CPBR, CPBF, CPBW do not work for long ADN entries. Long ADN entries up to 60 digits are supported for phonebook commands.	AT	PHONEBOOK	4
23597	Entries in FDN phonebook are limited to 20 digits while using phonebook related commands. ATD and phonebook commands like CPBR, CPBF, CPBW do not work for long FDN entries. Long FDN entries up to 60 digits are supported for phonebook commands.	AT	PHONEBOOK	4



23598	The ADN phonebook cannot be accessed using AT+CPBS command when FDN service is enabled. FDN list can be configured with wildcards which requires access to ADN phonebook. FDN phonebook can now be selected using AT+CPBS=FD,<PIN2> command.	AT	PHONEBOOK	4
24287	STK REFRESH: All segment sent by network (Cingular) are not taken into account in the SIM update due to a ACK timeout pb.	AT	STK	1
21973	Calling the API wm_scmClose twice would crash the application and reset the module.	FLASH	DOTA	3
21452	TC 20.22.20 failed : GCF 3.16+ [mandatory] : Penalty time too long.	GPRS	CELL_RESEL	2
16576	Problem in GPRS cell reselection : wrong calculation of C31 criteria.	GPRS	CELL_RESEL	3
18154	Problem on BCCH allocation computation when PSI status feature is activated on network side.	GPRS	CELL_RESEL	3
19630	TC 20.22.3 failed : issue in cell reselection algorithm during transition between PBCCH to BCCH.	GPRS	CELL_RESEL	3
18128	SMS sending in packet transfer mode is always failed.	GPRS	LLC	3
24971	TC 26.7.4.3.2 & 26.7.4.3.3 failed : When MM timer T3240 expires, RR connection is not released locally	GPRS	OTHER	1
24973	The user request to change the Ms class from B to CC (or CG) is ignored when the Ms is working on mode CC (or CG) on network mode of operation III	GPRS	OTHER	2
10278	It is impossible to re-start correctly the Ms after at+cpof requested while an RR connection establishment is in progress and the network mode of operation is I	GPRS	OTHER	3
24153	If PBCCH exists, bad uplink TBF establishment can occur if PCCCH and PACCH are mapped onto the same physical channel.	GPRS	OTHER	3
24974	Ms does not perform attach for GSM service in network mode I, when requested by the user after a manual IMSI detach then GPRS detach	GPRS	OTHER	3
24975	Call is not released when the SIM is extracted and network mode of operation is I	GPRS	OTHER	3

24995	Ms does not perform attach for GSM service in network mode I, when requested by the user after a manual IMSI detach then GPRS detach	GPRS	OTHER	3
14140	Sporadic speech call and data transfer drops encountered in static as well as in dynamic situations.	GPRS	OTHER	4
19887	Random reset during GPRS transfer on Orange network.	GPRS	RLC	1
26153	Ms reset occurs if the network never acknowledges the received RLC data blocks.	GPRS	RLC	1
17153	Ms resets during GPRS test mode A. Systematic.	GPRS	RLC	2
24980	Low GPRS data rate under specific conditions due to bad management of uplink resources reallocation.	GPRS	RLC	2
24981	Systematic reset during GPRS transfer in unacknowledged RLC mode.	GPRS	RLC	2
24991	Low GPRS data rate under specific conditions due to bad management of uplink resources reallocation.	GPRS	RLC	2
24992	Systematic reset during GPRS transfer in unacknowledged RLC mode.	GPRS	RLC	2
24988	issue in cell reselection algorithm during transition between FBCCH to BCCH : unexpected cell reselection can occur.	GPRS	RLC	3
24977	TC 46.2.2.4.2 failed : TCP/IP header compression issue.	GPRS	SNDP	2
24976	TC 46.2.2.1.3 failed : reset after reception of PDP context modification request.	GPRS	SNDP	3
18630	Impossible to start the call when the network has established a half rate channel for signalling.	GSM	MM	3
28508	On NMO1 network, when the MS is detached from both GSM and GPRS services (combined GPRS/IMSI detach) with the command at+cgatt=2, it is impossible to re-attach with at+cgatt=1.	GSM	MM	3

24972	Attachment problem on NMO1 network which accepts the ATTACH for GPRS service only and not for GSM with cause "Msc unreachable".	GSM	MM	3
24996	Call is not released when the SIM is removed and network mode of operation is I	GSM	MM	3
24997	Equivalent PLMNs list received in Location Update message is ignored.	GSM	MM	3
16567	In some conditions, AT+CGACT? returns 0 although the PDP context is not fully deactivated. In this case, the following PDP context activation is failed.	GSM	MM	4
23323	Reset if SIM card contains more than 250 items in Preferred PLMN selector	GSM	PLMN_SEL	1
24578	Bad behavior (Continuous "PLMN searching") in manual PLMN selection mode (AT+COPS=1,2,xxxx) after selected PLMN has been lost. No further network registration possible while in manual mode until reset.	GSM	PLMN_SEL	1
26044	TC 44.2.1.1.3 failed : GCF 3.19.0 [mandatory] : Autonomous selection not performed after GMM RAU reject reception with cause 7.	GSM	PLMN_SEL	1
24989	From time to time, the mobile stays in "Emergency" state. This appears after a passage in "No service" state (no-GSM network coverage) when manual selection mode is selected. After a reset, it finds the network immediately.	GSM	PLMN_SEL	2
16595	At start-up, MS may go in no-service state instead of camping on an equivalent PLMN	GSM	PLMN_SEL	3
24993	In some rare cases, the MS can stay in emergency even if the hplmn is available.	GSM	PLMN_SEL	3
26165	If the module can listen two cells with the same BSIC at the same time, a reset can occur during circuit switch call with a handover from a such cell.	GSM	RR	1
18580	If network cell broadcasts System Information type 3 or 4 with GPRS presence indication but no System Information type 13 is broadcasted, MS stays blocked in search mode.	GSM	RR	2
16565	When the module is reset using AT+WRST command, an unexpected OK is returned.	GSM	RR	3
16571	When the firmware is downloaded using Xmodem protocol, an OK is returned after a hardware reset. When the module is powered on, the module should not return an OK.	GSM	RR	3

16592	During circuit switch call, RSSI level indication can change a lot with a big rate.	GSM	RR	3
26042	TC 26.10.2.5 failed : GCF 3.19.0 [mandatory] : Cell allocation change during CS call not correctly managed.	GSM	RR	3
25864	Problem with SMS display on some SIM cards => creation of a new <error>: +CME ERROR: 539	N/A	N/A	1
21849	When the module is reset using AT+WRST command, an unexpected OK is returned.	N/A	N/A	2
21850	The response to AT+WBHV=? is only OK. The module should return the possible values for this command	N/A	N/A	2
21884	When the module is reset using AT+WRST command, an unexpected OK is returned.	N/A	N/A	2
23032	The SIM phb reload is not correct if in the SIM inserted on the module, the SIM phonebook was updated by another phone (between 2 insertions in the module). The <status> of the SIM phb in +WIND: 10 indication should be 1 (phb reloaded into internal mem)	N/A	N/A	2
23317	LED switched off after AT&W then AT+CFUN=0.	N/A	N/A	2
23906	Between Normal mode and Powerless mode (AT+WBHV=1,1), the indication +WBCI return different values (for a same battery level). The Battery Level should be the same in these 2 modes	N/A	N/A	2
24204	When the firmware is downloaded using Xmodem protocol, an OK is returned after a hardware reset. When the module is powered on, the module should not return an OK.	N/A	N/A	2
24950	When the AT+CLCC command is sent before the +WIND: 4 indication, the module resets. The module should return in this case a +CLCC response without the <alpha> parameter (name if the number is present in the phonebook)	N/A	N/A	2
25144	Dialing several times the same number, LD phonebook stores only one number. However if module is reseted, the LD phonebook contains the same number into several records. It should contain only one time this number	N/A	N/A	2
25155	In Dial Command, to allow the CLI presentation, i or I can be added to ATD command (ATD<number>i or ATD<number>I). In these 2 cases, the behavior should be the same (allow CLI presentation)	N/A	N/A	2

25459	Current call state displayed by AT+CLCC command is not correctly updated if this command is sent very quickly after ATA command.	N/A	N/A	2
25627	When the firmware is downloaded using Xmodem protocol, an OK is returned after a hardware reset. When the module is powered on, the module should not return an OK.	N/A	N/A	2
14117	Bad Frame Indicator (BFI) bit is not correctly tested when a GPRS communication is going on or when a non AMR speech channel is opened.	N/A	N/A	3
14130	In some network configurations, where timebase between serving and neighbour cells is not aligned enough, the module may not find the best neighbour cell. This may result in a bad transmission quality or a call drop.	N/A	N/A	3
15775	Random reset during GPRS transfert on Orange network.	N/A	N/A	3
16588	Sporadic speech call and data transfer drops encountered in static as well as in dynamic situations.	N/A	N/A	3
16593	Sporadic speech call and data transfer drops encountered in static as well as in dynamic situations.	N/A	N/A	3
18613	At call setup, during 1-2 seconds, the distant part cannot be heard, only weird noise are heard when the network establishes the speech channel with a Channel Modify command.	N/A	N/A	3
19796	Slow GPRS downlink data throughput on Nokia infrastructure.	N/A	N/A	3
23561	In +CNMI command, setting the <bnr> parameter to 1 should clear the SMS unsolicited response in the UART buffer.	N/A	N/A	3
24121	When the continuity of SMS relay protocol link is enabled using AT+CMMS=1 command, before the last SMS to be sent, AT+CMMS=0 must be sent to the module to know that this SMS is the last one to be sent	N/A	N/A	3
25142	Because of EXT1 files support, AT+CPBF=? returns an unexpected space between the first parameter and the first coma. This space should not be present	N/A	N/A	3
25168	When a phonebook entry is written in SIM phonebook (+CPBW command) with a phone number with more than 20 numbers and when the SIM supports the EXT1 file, making a direct call from this phonebook returns +CME ERROR: 24. The call should be set up	N/A	N/A	3

14174	Sporadic speech call and data transfer drops encountered in static as well as in dynamic situations.	N/A	N/A	4
16573	At the beginning of a voice call, the modem may proceed to a cell reselection due to bad radio signal levels reported in first measurement report. Accurate radio signal level measurements must be returned.	N/A	N/A	4
18405	In harsh fading condition (in high density network area for instance), the call releases itself even if the received signal is strong enough.	N/A	N/A	4
22237	When DTX downlink is on, Enhanced DC offset algo is not deactivated when No_Data speech samples are received.	N/A	N/A	4
25146	Support of 64 OPL entries in E-ONS SIM cards	N/A	N/A	4
25343	LND phonebook commands having phone number length exceeding 20 digits are not supported.	N/A	N/A	4
18744	RTK exception may occur after making attempt to receive FAX.	RTK	OTHER	2
26012	In case of SMS record reading, data reception is wrong ( 1 byte is lost ) at 56Kp ( speed enhancement ) , a +CME ERROR : 13 is returned.	SIM	OTHER	1
20456	SIM error not correctly handled with a "special" SIM Card (without LOCI SIM file)	SIM	OTHER	2
16465	When the module is reset using AT+WRST command, an unexpected OK is returned.	SIM	OTHER	3
22806	SIM error not correctly handled with a "special" SIM Card (without LOCI SIM file)	SIM	OTHER	3
22808	SIM error not correctly handled with a "special" SIM Card (without LOCI SIM file)	SIM	OTHER	3
18481	Memory pool shortage (leading to a reset) when sending huge amount of small pings.	SYS	INIT	3
24994	TC 46.1.2.2.3.4. : A backtrace occurs at the end of the downlink data transfer	SYS	INIT	3

### 6.1.2 Validation in OS X.42

Id	Description of the issue corrected (What / When)	Impacted Domain	Impacted Sub Domain	Severity*
25151	No error indication is displayed when a SMS-PP data download is failed.	AT	OTHER	1
22009	Upgrading X40 products to X41 by xmodem download is not possible : it causes an error message, or «at+cgmr» command returns X40 (ex : 640b09gm.Q2406B) instead of X41 (ex : 641b09gm.Q2406B)	OTHER	OTHER	1

### 6.1.3 Validation in OS X.43

Id	Description of the issue corrected (What / When)	Impacted Domain	Impacted Sub Domain	Severity*
18848	When the SIM is removed between the OK response to AT+CPIN=<pin> command and the +WIND:4 indication, the module is blocked to a waiting state. All the responses are +CME ERROR: 515 (please wait).	AT	N/A	2
20643	If the application tries to make a call with the number of an empty phonebook entry using ATD><phb><index> (ATD>SM1 for the 1st entry of the SIM phb), the modules responds sometimes NO CARRIER instead of +CME ERROR: 21	AT	N/A	2
22185	While an Open-AT application is running, the R pin state does not change when an unsolicited response is displayed on the serial link	AT	N/A	2
23890	RI is not raised when an USSD session is initiated by the network. Conditions : use AT+WRIM=1 and AT+CUSD=1 commands	AT	N/A	2
25888	When the module is configured with AT+WBHV=0,1, the indication +WIND: 2 when an outgoing call is made misses if a +WIND: 9 indication comes before the +WIND: 2 indication. The +WIND: 2 is trashed	AT	N/A	2
26094	Using the +CCED unsolicited responds, if the MNC is coded in 3 digits, only 2 are displayed	AT	N/A	2
27247	If AT+CPIN? is sent to the module immediately after the +WIND: 1 unsolicited response, the response is +CME ERROR: 515 instead of +CPIN: SIM PIN (or READY, ...)	AT	N/A	2
24142	Data incoming call not properly handle during an active GPRS session after the ATA command. In this case, incoming call must be rejected and error message 540 must occur.	AT	N/A	3

26060	The range of the 1st parameter of +WCDP command is [0-1]. But AT+WCDP=2 returns OK instead of +CME ERROR: 3	AT	N/A	3
26767	The AT+ECHO command accepts out of ranges values for CNGParam and ConvergenceTime parameters. The accepted value must be in accordance with the range defined in the AT User Guide	AT	N/A	3
27387	The AT+ECHO algorithm 6 parameter NmbDelay has to be replaced by the parameter SOMValue with a different default value. The NoiseThres and NmbDelay default values are not optimized.	AT	N/A	4
25758	When the EN phonebook is present in the SIM, reading the entries using +CPBR command responds that these entries are empty even if it's not the case. It was happened only one time	AT	PHONEBOOK	2
25946	CPBN command works under EN phonebook . This command should be not available in the EN phonebook	AT	PHONEBOOK	2
27119	The numbers 000, 08, 110, 118, 119 and 999 are not treated as emergency numbers without a SIM. (911 and 08 for PCS PLMN). Now, with a SIM, 112 and 911 are treated as Emergency numbers + numbers in the EN phonebook	AT	PHONEBOOK	2
26217	When PIN2 is entered then the FDN phonebook is activated (using the PIN2), the state of the PIN2 resets (AT+CPIN2? responds +CPIN2: SIM PIN2 instead of +CPIN2: READY)	AT	PHONEBOOK	3
27271	Only one frequency is available using +WTONE command. Now, 2 frequencies are available (only with the speaker). Refer to the update of the AT user guide	AT	STK	4
27262	MO data call may fail on networks expecting the Low Layer Compatibility information in SETUP.	DATA	N/A	4
24054	When an Open-AT v2.* application calls the wm_scmClose() function before wm_scmOpen() one, it leads to a product reset.	FLASH	DOTA	2
27237	TC 20.22.20 failed : Penalty time too long [mandatory for PTCRB 3.1.2+ / GCF 3.16+]	GPRS	CELL_RESEL	2
26997	TC 41.3.5.2 Failed :PTCRB 3.1.2 / GCF 3.16.0 [mandatory]	GPRS	N/A	1
26994	TC 41.3.5.2 Failed :PTCRB 3.1.2 / GCF 3.16.0 [mandatory]	GPRS	N/A	2
19998	When a correct PDP context activation requested by nwk is received by the MS after the reception of a PDP context activation requested by nwk but containing a semantic error , the new PDP activation is rejected	GPRS	SESSION_MGT	3



24585	Problem upon Modify PDP Request message reception with a change of SAPI : MS can reset or Data transfer can be indefinitely blocked (requiring MS reset)	GPRS	SNDCP	2
24978	TC 46.2.2.4.1 fail: XID answer incorrect .TCP/IP header compression cannot be used	GPRS	XID	2
25663	TC 46.2.2.1.3 failed : N-PDU number should not be reset upon PDP context modification request message reception.	GPRS	XID	2
24979	TC 46.2.2.4.1 failed : No UA message sent after XID message reception due to a misinterpretation of L3 parameters.	GPRS	XID	3
20256	Data call establishment failure : when AMR feature is activated, "Data TCH/H" establishment cause is used even if not supported.	GSM	CC	2
26445	Loud alarm noise randomly heard with a CRTU tester	GSM	N/A	1
26447	short but loud audio noises. Sporadic occurrence depending ion network.	HWL	AUDIO	1
27273	Only one frequency is used to program tones.	HWL	AUDIO	4
27389	Improved echo cancellation performance algorithm n°6 requested	HWL	AUDIO	4
27560	Unwanted AMR feature on Q2406A non AMR module	HWL	N/A	1
26799	If MS is switched off and the power removed, at power switch on (few seconds later) AMR feature has been automatically deactivated.	HWL	N/A	2
27154	Loud explosion noise heard at local speaker in case of unusual behaviour of network. Low frequency reproduction.	HWL	N/A	2
26858	Synchronization failure with phase error sensitive GSM testers.	HWL	RF	3
26701	If an Open-AT application writes a Flash Object during a Network operation (SMS, call, ...), the object may not be written, even if the write API returns OK.	N/A	N/A	1

25145	When trying to network lock the module with 20 co-operative networks in the CNL using +WLCK command, the module reset systematically instead of responding OK	N/A	N/A	2
26161	In the SIM, the flag MCE is bad formatted when we receive a SMS : When receiving SMS and SIM is full the MCE byte in SMS status is set to 0x00 instead of 0xFE.	N/A	N/A	2
27248	After AT+CSAS command, the content of EF_SMSP SIM file is not clean : random data are stored in the padding area : should be 0xFF data.	N/A	N/A	2
27246	For outgoing data calls, when modem type is set to Autobauding (AT+CBST=0), LLC parameter is set to an inconsistent value. If this one is not ignored by the network (as it should) the call is systematically rejected. Issue occurrence network dependant.	N/A	N/A	4
16568	SIM task not properly stopped after an AT+CPWF command.	SIM	N/A	3
27593	Unwanted AMR feature on Q2406A non AMR module	SYS	FEATURE S	1
27151	If MS is switched off and the power removed, at power switch on (few seconds later) AMR feature has been automatically deactivated.	SYS	FEATURE S	2

#### 6.1.4 Validation in OS X.43a

Id	Description of the issue corrected (What / When)	Impacted Domain	Impacted Sub Domain	Severity*
28307	MO data call may fail on networks expecting the Low Layer Compatibility information in SETUP.	DATA	OTHER	4
27914	An application uses the Scratch Memory in read mode. When it uses the scratch memory read function, the returned data are always the same (i.e. it behaves as if the internal scratch memory pointer was not incremented).	FLASH	DOTA	3
27686 28203	After a correction in LLC support in data bearer, it is impossible to setup a data call on Bouygues network.	GSM	OTHER	1

**6.1.5 Validation in OS X.43b**

Id	Description (What / When)	Impacted Domain	Impacted Sub Domain	Severity*
27493	When the CORP lock (using AT+WLCK="PC",1,<code>,<gid1>,<gid2>) is activated, when inserting a SIM card with a GID2 file containing several values, the module is not unlocked even if the correct value is present.	AT	OTHER	1
27446	When the SP lock (using AT+WLCK="PP",1,<code>,<gid1>) is activated, when inserting a SIM card with a GID1 file containing several values, the module is not unlocked even if the correct value is present.	AT	OTHER	1
27321	The module resets when the final " character missed in the +CPBP command (in fact, in all AT commands using ascii field delimited by """)	AT	OTHER	1
25666	On Q2426 and Q3106, when AMR is activated, no incoming calls can be received.	AT	OTHER	2
27531	If any exceptional command such as VGR is sent before an OK for ATD is received, followed by VGT, VGT returns an OK instead of an error "+CME ERROR: 515".	AT	OTHER	3
26505	When the feature SIM_PRES is deactivated, a GPRS session is not ended when the sim is removed.	AT	OTHER	3
28361	When entering some entries in "ME" phone book of a SIM 1, if another SIM is then inserted, Wavecom modem resets during ADN phonebook reload, after Pin activation.	AT	PHONEBOOK	1
28027	When spaces are included in the destination address of the +CMGW parameter, the command responds OK and when the SMS is read, the spaces are replaced by "00" in the destination address. Space digits must be forbidden in the destination address.	AT	SMS	2
27041	In GCF 3.17 test 27.22.4.5, the STLK session is immediately aborted after the display of +STGI: 5,<TimeUnit>,<TimeInterval>,<TextInfo> instead of after the time indicated in <TimeUnit> and <TimeInterval> parameters	AT	STK	1
27369	During a STLK REFRESH (tests GCF 3.16 (Mandatory)), the initialization is bad implemented. When the EF LOCI, IMSI are invalidated, the module doesn't rehabilitate these files.	AT	STK	1
27281	In GCF 3.17 test 27.22.4.7.2, when doing a EF IMSI refresh SIM Initialization (with a new IMSI), the IMSI is not upgraded.	AT	STK	2

27973	When an Open-AT application uses the <code>wm_ioSerialGetSignal</code> API, this one always returns 1 (the real input signal state is not returned correctly)	DEVICE	V24	1
22005	FAX transmissions from Wavecom Modem are OK (the other end-point receive the fax correctly) but the FAX application connected to Wavecom modem shows a bad status for the transmission.	FAX	Class1	3
27937	After the fax transmission is complete, module does not return OK after sending "FHNG: 0" (normal end of connection). The transmission is completed successfully, but the user gets an incorrect indication	FAX	Class2	2
28317	Impossible to Attach GPRS with network infrastructure using Cell Notification instead of normal Cell Update.	GPRS	OTHER	1
26746	If the module can hear two cells with the same BSIC at the same time, a reset can occur during circuit switch call with a handover from a such cell.	GSM	RR	1
28390	In noisy conditions (car telephony), when noise reduction is limited, the comfort noise level is too low comparing to the transmitted ambient noise level	HWL	AUDIO	1
27773	+ECHO allows to select Algoid 3 on Q2426 and Q3106. It should return +CME ERROR 3 instead.	HWL	AUDIO	2
27528	With +ECHO command, when algorithm 6 is activated, changing the <code>NmbTabs</code> parameter from 256 to any value below 256 disable the AEC processing.	HWL	AUDIO	2
28033	Bad echo cancellation quality when AEC activated and Convergence Time1 & 2 are $\geq 32768$ .	HWL	AUDIO	3
28043	+ECHO command does not allow to launch the algorithm 6 on Q2426 and Q3106.	HWL	AUDIO	4
28123	With +CPBW command, the 'Alphafield' of SDN phonebook entry cannot store more than 30 characters. When more than 30 characters are written into 'Alphafield', the module resets during phonebook initialization.	SIM	OTHER	3

### 6.1.6 Validation in OS X.43c

Id	Description (What / When)	Impacted Domain	Impacted Sub Domain	Severity*
29255	The internal PLMN list of the module is not updated according to last operator list	AT	OTHER	2

29129	The default value of AT+WDR command is set to +WDR: 2,1 (Half rate for data calls is allowed) though Wavecom module does not support Half-rate for data calls	AT	OTHER	3
29269	When a reset occurs during a writing of MIC and speaker value in EEPROM, a desynchronization on MIC and Speaker stored values may appear. This results in incorrect configuration of MIC and speaker audio values	AT	OTHER	3
29972	When AT+CHLD command is sent to hold an active call and activate a held or incoming call: OK is received twice as response instead of once	AT	OTHER	3
29710	If a SIM card has more than 20 "Replace type" SMS messages, the module resets during a SMS message read (+CMGR command)	AT	SMS	1
25195 27540 27813 28452 28946 28985 29800 30468 30484	User Guide updated	DOC	N/A	3
30183	During cell selection, if a best cell is detected, cell change is performed but CCCH channel configuration is badly managed and a module reset occurs	GSM	CELL SELECTION	1
29803	Reset can occur at the end of a location update procedure	GSM	RR	1
30299	Improved management of MCC locks	N/A	N/A	3
29880	GCF test cases (cat. B) 27.17.2.1.1 and 27.17.2.1.2 (electrical tests on SIM card power supply contact) failed with Q3106 module	SIM	RESET	1

### 6.1.7 Validation in OS X.44

Id	Description (What / When)	Impacted Domain	Impacted Sub Domain	Severity*
30218	New driver for ATMEL flash memories	FLASH	OTHER	4

## 6.2 Integrated But Not Validated Corrections/Improvement

The Trouble Reports below have been integrated in the software delivery, but the correction has not been validated by the Validation team because of specific environment requirement. Those trouble reports have been found on the X.44 or former software releases.

### 6.2.1 Validation in OS X.41c

Id	Description (What / When)	Impacted Domain	Impacted Sub Domain	Severity*
25151	No error indication is displayed when a SMS-PP data download is failed.	AT	OTHER	1
23890	RI is not raised when an USSD session is initiated by the network. Conditions : use AT+WRIM=1 and AT+CUSD=1 commands	AT	OTHER	2
24984	TC 20.22.23 failed : reselection parameters not correctly decoded.	GPRS	CELL_RESEL	2
21453	TC 20.22.20 failed : GCF 3.16+ [mandatory] : NC frequency list not correctly decoded	GPRS	CELL_RESEL	3
21454	TC 42.4.2.1.4 failed : Packet Cell Change Failure message not sent to network.	GPRS	CELL_RESEL	3
24978	TC 46.2.2.4.1 fail: XID answer incorrect, TCP/IP header compression cannot be used	GPRS	XID	2
26210	If the module can listen two cells with the same BSIC at the same time, a reset can occur during circuit switch call with a handover from a such cell.	GSM	RR	1
20031	On STK Setup Call, on specific SIM, the duration parameter is set to 0 (reserved values). In this case, the module doesn't understand the proactive command. The module should understand it and the set up call should be made	N/A	N/A	3

### 6.2.2 Validation in OS X.42

Id	Description of the issue corrected (What / When)	Impacted Domain	Impacted Sub Domain	Severity*
23321	The OK response is not displayed after ATA command when AT+WBHV=0,1. It happens for a 2nd incoming call	AT	N/A	1
26589	When the registration failed because of an unknown IMSI or an illegal ME, the module send an unsolicited response +CREG: 4 instead of +CREG: 3	AT	N/A	2
26377	When the +WIND: 9 indication is displayed, it's impossible to send a DTMF using VTS command before the OK of the ATD. The response to VTS command is +CME ERROR: 30.	AT	N/A	2
26523	It's not possible to establish a data connection using AT+CBST=4,0,1 settings in Brazil on TIM Network. The call is rejected.	AT	N/A	3
26588	AT+ECHO command manages only 2 Echo cancellation algorithm (AEC1 and AEC3). The new AEC codec (AEC6) algorithm is not supported.	AT	N/A	4
26241	Unsolicited indications (+WIND: 13 and +WIND: 14) is the only way to check and know the presence or absence of SIM Card Holder. There is no AT command to check for the status of the SIM Card Holder without any manual intervention.	AT	OTHER	4
26935	During the 10 first seconds after a power on or a reset, the AT+ADC? command return 0 for the ADC value B and C.	DEVICE	ADC/BAT	2
26414	Upgrades to X.41x version fail because the downloaded EEPROM settings are ignored when the user has used the command AT+WMR since the last firmware upgrade.	FLASH	EEPROM	1
26530	Bad echo cancellation efficiency	N/A	N/A	4

### 6.2.3 Validation in OS X.43

Id	Description of the issue corrected (What / When)	Impacted Domain	Impacted Sub Domain	Severity*
26931	When a specific and not common network configuration is used (SI2B broadcasted whereas SI5B is not), systematic reset occurred after having terminated/originated a call, after having sent/received SMS or after having registered/unregistered to network.	GSM	CELL_SE L	1

26448	Sporadic audio shrill noise when going out of network coverage	GSM	N/A	1
26210	If the module can hear two cells with the same BSIC at the same time, a reset can occur during circuit switch call with a handover from a such cell.	GSM	RR	1
25852	In AMR Full Rate, remote users hears a low level disturbing noise (buzzer). Sporadic occurrence depending on network.	HWL	AUDIO	1
26451	Sporadic low level audio noise. Frequency depending on network configuration.	HWL	AUDIO	2

#### 6.2.4 Validation in OS X.43a

None

#### 6.2.5 Validation in OS X.43b

Id	Description (What / When)	Impacted Domain	Impacted Sub Domain	Severity*
27970	In GCF 3.17 test 27.22.4.5, the STLK session is immediately aborted after the display of +STGI: 5,<TimeUnit>,<TimeInterval>,<TextInfo> instead of after the time indicated in <TimeUnit> and <TimeInterval> parameters	AT	SMS	1
26210	If the module can hear two cells with the same BSIC at the same time, a reset can occur during circuit switch call with a handover from a such cell.	GSM	RR	1

#### 6.2.6 Validation in OS X.43c

None

#### 6.2.7 Validation in OS X.44

None



## 6.3 Specificities between X.41b and X.44 version

This section lists the new features from the X.41b – X.44 version.

### 6.3.1 Features from X.41c

#### 6.3.1.1 SIM Speed Enhancement Activation

The SIM\_SPEED\_ENHANCEMENT feature is ACTIVATED by default.

#### 6.3.1.2 SIM Toolkit

- Automatic Response is activated by default in the command AT+STSF (+STSF: 0,"1F6BFFF1F",3,1), in order to cope with some requirements of the CINGULAR network.

### 6.3.2 Features from X.42

#### 6.3.2.1 ADC behavior change

##### 6.3.2.1.1 New ADC AT command description

The AT+ADC command returns average values, computed every 10 seconds. The same set of values will be returned between two average computing.

##### 6.3.2.1.2 New ADC behavior during initialization

The average value is now initialized with a single ADC read during the module initialization.

This involves that the monitored signal **MUST** be present and stabilized before the module power on or reset. This value will be averaged after the first 10 seconds and can change with a significant increment considering the first value returned.

Consequently, if the signal is not present at power on, the value obtained by AT command is likely to be wrong. Moreover the first significant value will be obtained after 10 or 20 seconds.

#### 6.3.2.2 WSHS command

This command returns the current state (open, closed) of the SIM card holder. For more information, please refer to [1].

### 6.3.3 Features from X.43

#### 6.3.3.1 Echo cancellation new Algorithm 6

Refer to +ECHO command in the *AT Commands Interface Guide for revision X44*.

### 6.3.3.2 +WTONE Update (2 frequencies allowed)

This specific command allows a tone to be played on the current speaker or on the buzzer. Frequency, gain and duration can be specified.

For more information, refer to +WTONE command in the *AT Commands Interface Guide for revision X44*.

### 6.3.4 Features from X.43a

#### 6.3.4.1 Specific Country Lock implementation

Specific country lock feature aims at locking a module use to a pre-determined list of countries.

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

⇒ The module upgrade by using a specific country lock version is not reversible. Effectively, all modules 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.

#### 6.3.4.2 Scratch memory interface modification

This interface modification is only applicable when Open AT® v2.11 is used.

Since the X.43a AT firmware version, `wm_scmRead` API returned value behaviour has changed :

- Before 643a version, on successful completion of the read, this value was always equal to the required read size parameter, even if the stored data end was reached.

Since 643a version, on successful completion of the read, this value is equal to the effective read size. It means that when the stored data end is reached, the returned value may be either lower than the required read size (if the required read size was greater than the remaining data size), or 0 (if there is no more data to read).

### 6.3.5 Features from X.43b

None

### 6.3.6 Features from X.43c

#### 6.3.6.1 Extended phonebook management

- Files EF-EXT1 and EF-EXT2 are now supported allowing to enter records in the phonebook with dial strings up to 60 digits.
- bit3 of Files Status of the SIM phonebook is now managed allowing access to the SIM phonebook when FDN is enabled.

## 6.3.7 Features from X.44

### 6.3.7.1 New Flash Introduction on Q2400A and Q2406A.

Wavecom will be introducing new flash memories on their Q2400A and Q2406A products to be shipped starting beginning of April 2006. This decision has been motivated by

- the pressure on the flash memory market
- the willingness of Wavecom to better serve its customers by avoiding too much dependence on its suppliers.
- Wavecom commitment to continue the Q24 product line beyond the RoHS deadline of mid 2006.

Due to the lead free regulation, we have been observing an increasing tension on the flash market that would lead to flash shortage on some of the memory configurations used by Wavecom. Therefore, in order to secure deliveries starting from beginning of Q2/2006, Wavecom has decided to introduce new flash memories on the Q2400A and Q2406A.

## 6.4 Certification Compliance

All platforms are compliant to R&TTE EN 301 419-1 v4.1.1 and EN 301 511 v7.0.1.

The following table sums up the certifications passed for this software version or the last version that obtained a certificate.

	GCF-CC / WM SW	PTCRB / WM SW
Q2406A	V3.19 / X43c	-
Q2406B	V3.19 / X43c	-
Q2406E	V3.19 / X43c	-
Q2400A	V3.19 / X43c	-
Q2426B		V2.11.2 / X41c
Q3106A	V3.11.1 / X41	-
Q3106E	V3.11.1 / X41	

## 6.5 Additional Information / Restriction

This section lists additional information or restrictions that must be taken into account regarding the X.44 firmware.

### 6.5.1 Common to all versions

Id	Description
29171	<b>Concatenated commands ignored</b> – When an Open AT <sup>®</sup> application is running, execution of concatenated commands is not possible (only the first command is executed). This prevents the use of concatenated command with Open AT <sup>®</sup> .
28691	<b>Unsolicited indication</b> – Module send unsolicited indications ("+WIND:1", "+CREG:1") when a SimToolkit SIM refresh is performed. This gives the impression that module has reset.

30905	<b>Automatic dialing</b> - AT%D1 command cannot be performed from FD (Fixed Dialing) directory.
28743	<b>GPIOs</b> - All GPIOs are set as OUTPUT when in download mode (AT+WDWL).
30888	<b>ON/OFF signal</b> – When the ON/OFF signal is set to LOW level and if an unexpected software reset occurs, the module can be switched-off instead of being reset. It is recommended to let the ON/OFF signal set to HIGH level after power-on. Only set this signal to LOW level after AT+CPOF/AT+CFUN=0 command (switch off) or after a "+WBCI: 0" indication (low battery).
27246	The correction for issue 27246 has introduced a regression (issue 27686) for CSD DATA calls that may fail on some networks with autobauding enabled (default mode). Therefore +CBST command <i>speed</i> parameter default value is set to 7 (9600 bps modem V32 type) instead of 0 (autobauding) as mentioned in the <i>AT Commands Interface Guide</i> . This is specific to this version and this default value should be back to 0 for the next one. Note that when the Factory Settings are restored by using AT&F, the <i>speed</i> value is restored to 0.

**6.5.2 Specific to A memories (Q2400A, Q2406A)**

Id	Description
29329	<b>Reset during data call</b> – During a v42bis MC call with +DS command P1 parameter (that gives the number of dictionary entries) set to 4096, the modem resets. This number must be decreased to 2048.

**6.5.3 Specific to M1306B modem**

Id	Description
30912	<b>GPIOs commands must not be used</b> – M1306B modem does not respond after AT+WIOM=1023,1023 command. The only way to restore the modem is to re-download the X.44 software using DwlWin tool. As GPIOs are not available on M1306B modem, it is highly recommended not to use commands like AT+WIOM or AT+WIOW.