



MIGRATION KIT FOR NEW Q24 SERIES

Version de la présentation

wavecom[®]
Make it wireless



Agenda

- New Q24 Series
- New Q24 Introduction Plan
- End Of Shipment of Q24 Plan
- Migration from Q24/eDevices to NewQ24/WIP



Purpose of this document

- This presentation gathers the main guidelines for the migration towards the new Q24 Series
- This document must be completed by the reading of the Releases Notes and Migration Guides (listed in Page 10 & in Page 22)



NEW Q24 SERIES

New Q24 Series

Wireless CPU

Main Versions

Q24 Classic: GSM only
Q24 Plus: GSM/GPRS
Q24 Extended: GSM/GPRS for specific environment
Q24 Auto: GSM/GPRS for Automotive

All versions are Quad Band

Programmable Processor

ARM 7, 32 bit, 52MHz maximum
MIPS: 13 maximum
Program Flash: up to 1.5MByte
Cache enabled

IO Interfaces (60 pin)

Up to 11 GPIO, ADC, Interrupt, LED & buzzer
Ports: 2 x UART (virtual port compatible)
Buses: SPI, I²C, Keypad: 5 x 5, Radio: 4 ports
Audio: 2 x Analogue (IMP/U.FL/MMS/solder)

Pin To Pin Compatible With Q24

Physical

Size: 58 x 32 x 3.9mm, <12g
Temp: up to -30°C to +75°C class B
SIM holder (option on Q24 Classic & Q24 Plus)
RoHS compliant

Open AT[®] Software

Wireless Firmware 6.57

Global cellular compatibility: Quad Band GPRS cl.10
Audio: FR/EFR/AMR (FR/EFR/HR upon request)
Bluetooth: companion stack & ref design (option)

Open AT OS 3.12: Embed your application

Investment Protection: DOTA Type I & II
VariPower (programmable power saving modes)
Rich set of over 440 API


Plug-Ins

WIP (Wavecom IP) both AT and OpenAT APIs:
TCP: TCP, UDP
Internet: POP3/SMTP, FTP, TCP/IP/UDP, PING, DNS
IBM MQTT: Websphere compatibility (option)
M2M Connect : Orange M2M gateway (option)

IDE

Open AT[®] built on Eclipse[™]: execute ANSI C program
Open AT[®] GTi: graphical interface based products





New Q24 Hardware

→ Description

- All new Q24 Wireless CPUs are:
 - Quad Band
 - ROHS
- Compatibility with existing Q24:
 - Same form factor
 - Pin to Pin Compatible

→ New features:

- Quad Band (select 900/1800 or 850/1900 by AT command)
- SIM card holder option
- Interfaces:
 - Introducing UFL connector (harmonise with Q26 platform)
 - I2C (harmonise with Q26)



New Q24 Firmware 6.57

→ Description:

- Origin: 6.55 (All features/corrections in 6.55 duplicated in 6.57)
- Evolution: New Features and Corrections from 6.55

→ New features:

- New TCP/IP and Internet Protocol Plug In: WIP
- ENS
- 7 cells Timing advance

→ Corrections:

- Read 6.57 Release Note



New Q24 Open AT V3.12

→ Description

- Origin: 3.10 (All features/corrections in 3.10 are also duplicated in 3.12)
- Evolution: New Features and Corrections from 3.10

→ New features

- WIP
- Event notification mechanism provided by A&D service
- ADL API for DAC interface on Q2501 module
- ADL API for I2C
- OpenAT GTi monochrome

→ Samples

- One sample on DAC interface added

→ Corrections

- Read OpenAT 3.12 Release Note
- Corrections are implemented for ADL, Basic, OS & Tools



New Q24 TCP/IP Plug In: WIP

→ Two versions:

- WIP (OpenAT APIs)
- WIPsoft (AT commands)

→ Two Plug Ins:

- TCP Plugin: TCP, UDP, Ping
- Internet Plugin: TCP Plugin + FTP, SMTP, POP3

→ New features

- Bearer independent
- Concurrent Bearer
- Dynamic socket Allocation
- Per Socket Configuration
- Connexions abort API

New Q24 Documentation

	Reference	Title	Status	Storage
Hardware	WM_PRJ_Q24NG_PTS_004 WM_PRJ_Q24NG_PTS_002 WM_PRJ_Q24NG_PTS_004	Product Technical Specification Customer Design Guideline Differences with the Q24xx sub-series	Revision 1 Revision 1 Preliminary	Web site/ Support Web site/ Support Web site/ Support
Firmware		OS 6.57 Release Note AT commands interface guide	Preliminary Preliminary	Web site/ Support Web site/ Support
OpenAT		Open AT v3.12 Release Note GS_Getting_Started_with_Open_AT ADL_User_Guide Basic_Development_Guide	Preliminary Preliminary Preliminary Preliminary	Web Site/ Support FTP Site FTP Site FTP Site
TCP/IP		WIP_Development_Guide	Preliminary	Web Site/ Support



New Q24 Certifications

- All Quad Band related certifications
 - Europe: CE (R&TTE, GCF, EMC, Safety)
 - Americas: FCC & PTCRB

- Certifications and Test reports available date
 - CE: Week45
 - FCC: To be announced later

- Will be published in web site (Support / Wireless CPU section)



INTRODUCTION & EOS PLANS

New Q24 Introduction Plan

	Q24 Classic Q24 Classic SH	Q24 Plus Q24 Plus SH	Q24 Extended
Engineering Samples	Available	Available	Available Week 44
Firmware Beta Official	B57k now Week 46	B57k now Week 46	B57k now Week 46
OpenAT OS Beta Official	312.b07 now Week 46	312.b07 now Week 46	312.b07 now Week 46
TCP Plugin - AT (WIP Soft) Beta Official	N/A	Available 06/12/06	Available 06/12/06
TCP Plugin - Open AT (WIP) Beta Official	N/A	Available 15/11/06	Available 15/11//06
Internet Pugin - AT (WIP Soft) Beta Official FTP, others in beta Official	N/A	Available 06/12/06 TBD	Available 06/12/06 TBD
Internet Pugin - Open AT (WIP) Beta Official FTP, others in beta Official	N/A	Available 06/12/06 TBD	Available 06/12/06 TBD
Mass Production	30 Nov 06	30 Nov 06	30 Nov 06

EOS Plan for Q24 and eDevice TCP/IP

	Q2400A	Q2406A	Q2406B	Q2426B
Last Time Buy (LTB)	31/03/2007	31/03/2007	31/03/2007	31/03/2007
Last Delivery Date (LDD)	30/06/2007	30/06/2007	30/06/2007	30/06/2007
eDevice (both eDsoft and eDlib) Last Delivery Date (LDD)	N/A	31/12/2006	31/12/2006	31/12/2006



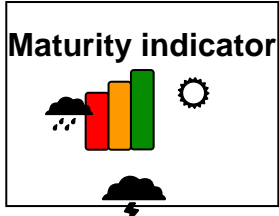
Migration Towards The New Q24

Hardware correspondance

Existing Q24 series	New Q24 Series	Comments
Q2400A	Q24Classic	GSM only product with or without SIM holder
Q2406A	Q24Plus	With or without SIM holder
Q2406B	Q24Plus	With or without SIM holder
Q2426B	Q24Plus	With or without SIM holder
Q24xB	Q24Extended	For specific environment



Q2400A/Q2406A – OpenAT/no OpenAT – No TCP



→ Important Dates

- **LTB: 31/03/07**
- **LDD: 30/06/07**

→ Challenges

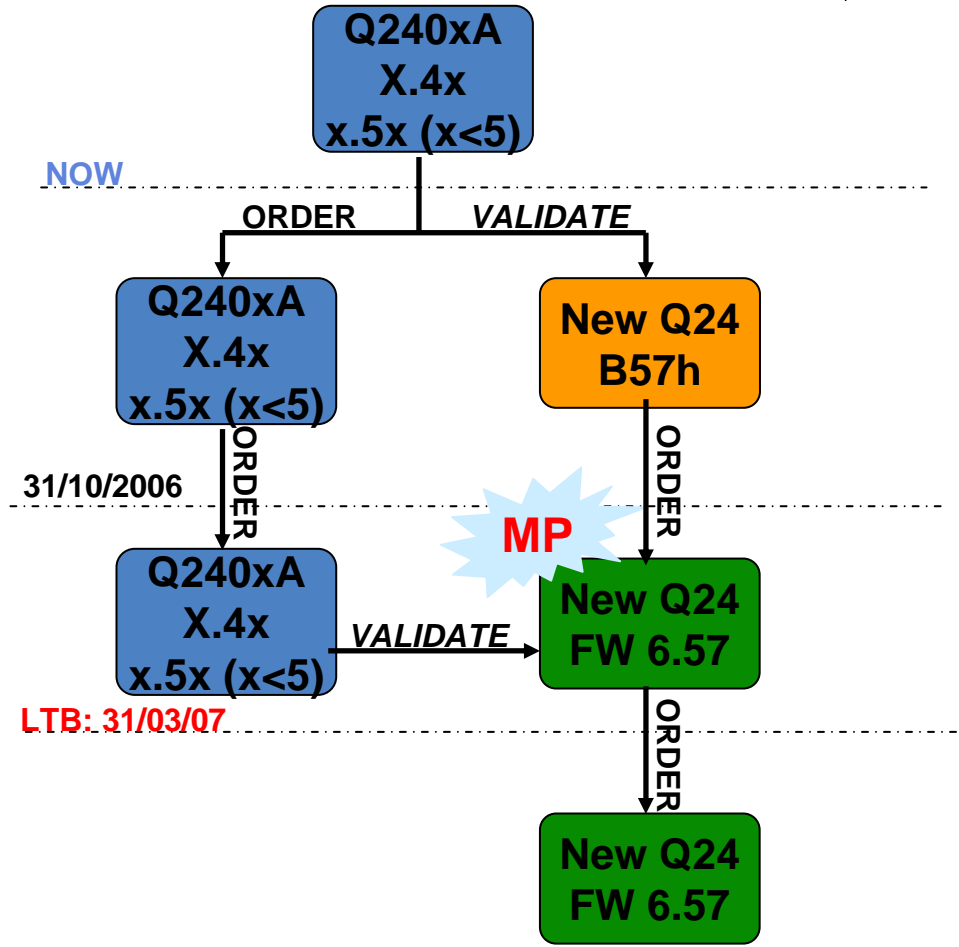
- No more firmware and OpenAT maintenance after X44a, X52a, 3.03

→ Consequence

- Urgent validation of Q24Classic/6.57 or Q24Plus/6.57 required

→ Key Message

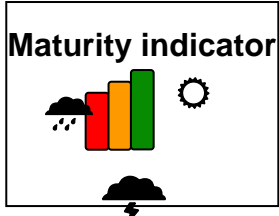
- **Migrate ASAP to appropriate New Q24/6.57/3.12**



WAVECOM©2005. All rights reserved



Q2406A – OpenAT/no OpenAT – TCP Plug In



→ Important Dates

- **LDD: 31/12/06**

→ Challenges

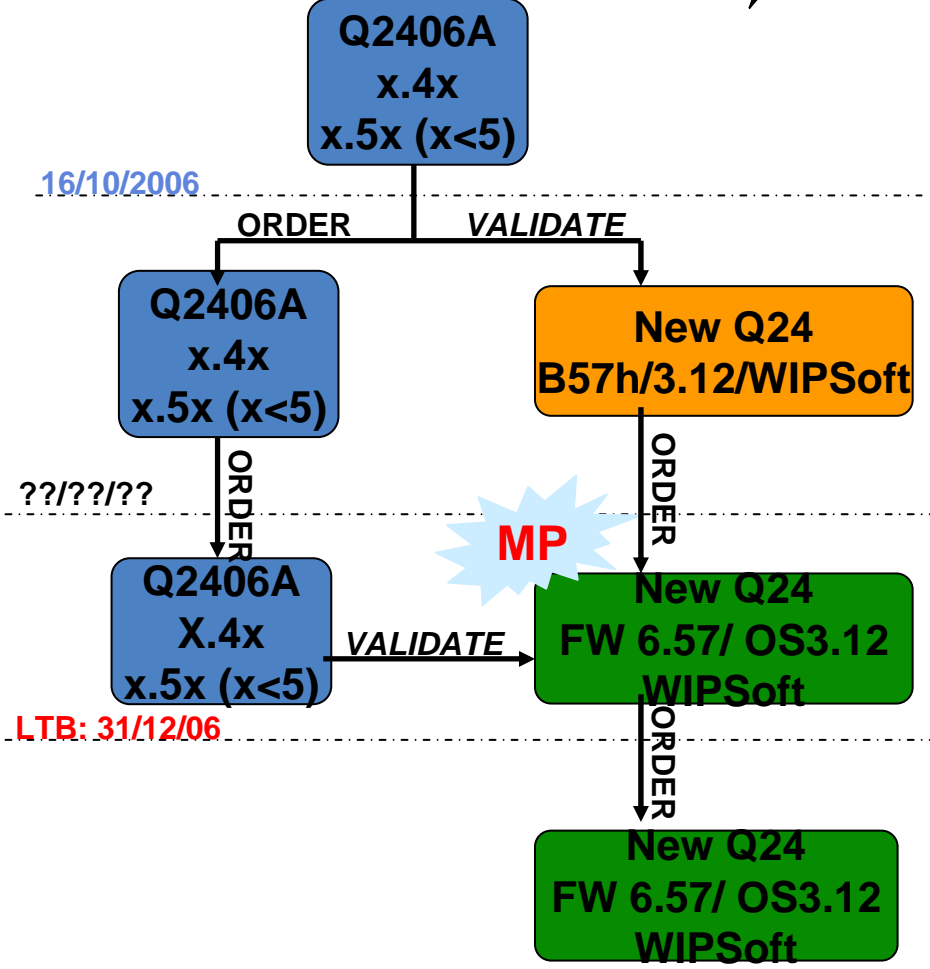
- No more eDlib or eDSoft
- No more firmware and OpenAT maintenance after X44a, X52a, 3.03

→ Consequence

- Urgent validation of Q24Plus/6.57/3.12 or WIPsoft required

→ Key Message

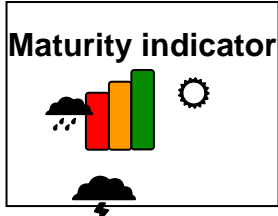
- **Migrate ASAP to appropriate New Q24/6.57/3.12**



WAVECOM©2005. All rights reserved



Q24x6B – Open AT/no OpenAT – No TCP/IP



→ Important Dates

- **LTB: 31/03/07**
- **LDD: 30/06/07**

→ Challenges

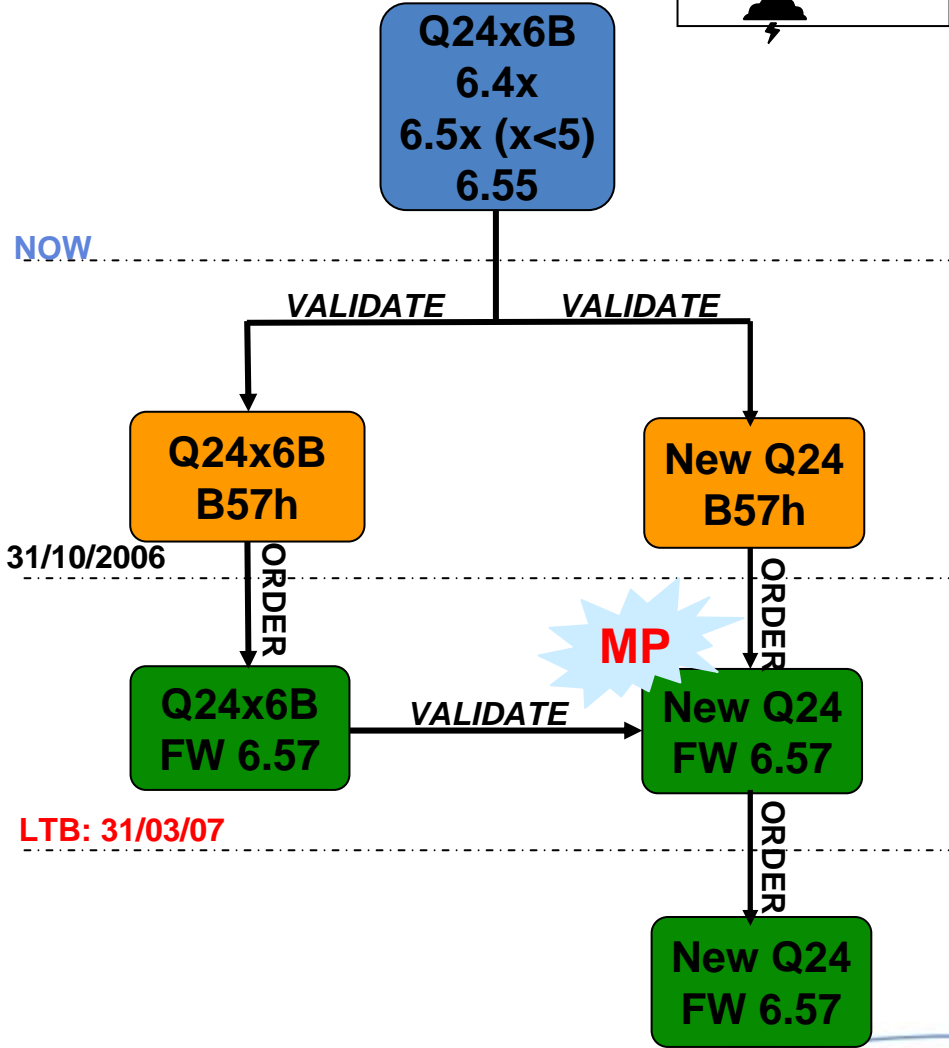
- **No more maintenance Firmware after X44a or X52a**
- **Q2426B non ROHS**

→ Consequence

- **Urgent validation of 6.57 required**
- **Urgent validation of Q24Plus/6.57 required**

→ Key Message

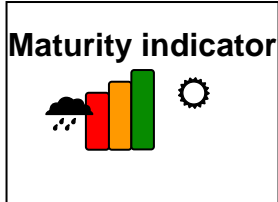
- **Migrate ASAP to Q24Plus or Q24Extended**



WAVECOM©2005. All rights reserved



Q24x6B – Open AT/ No Open AT - eDSoft



→ Important Dates

- **LDD: 31/12/06**

→ Challenges

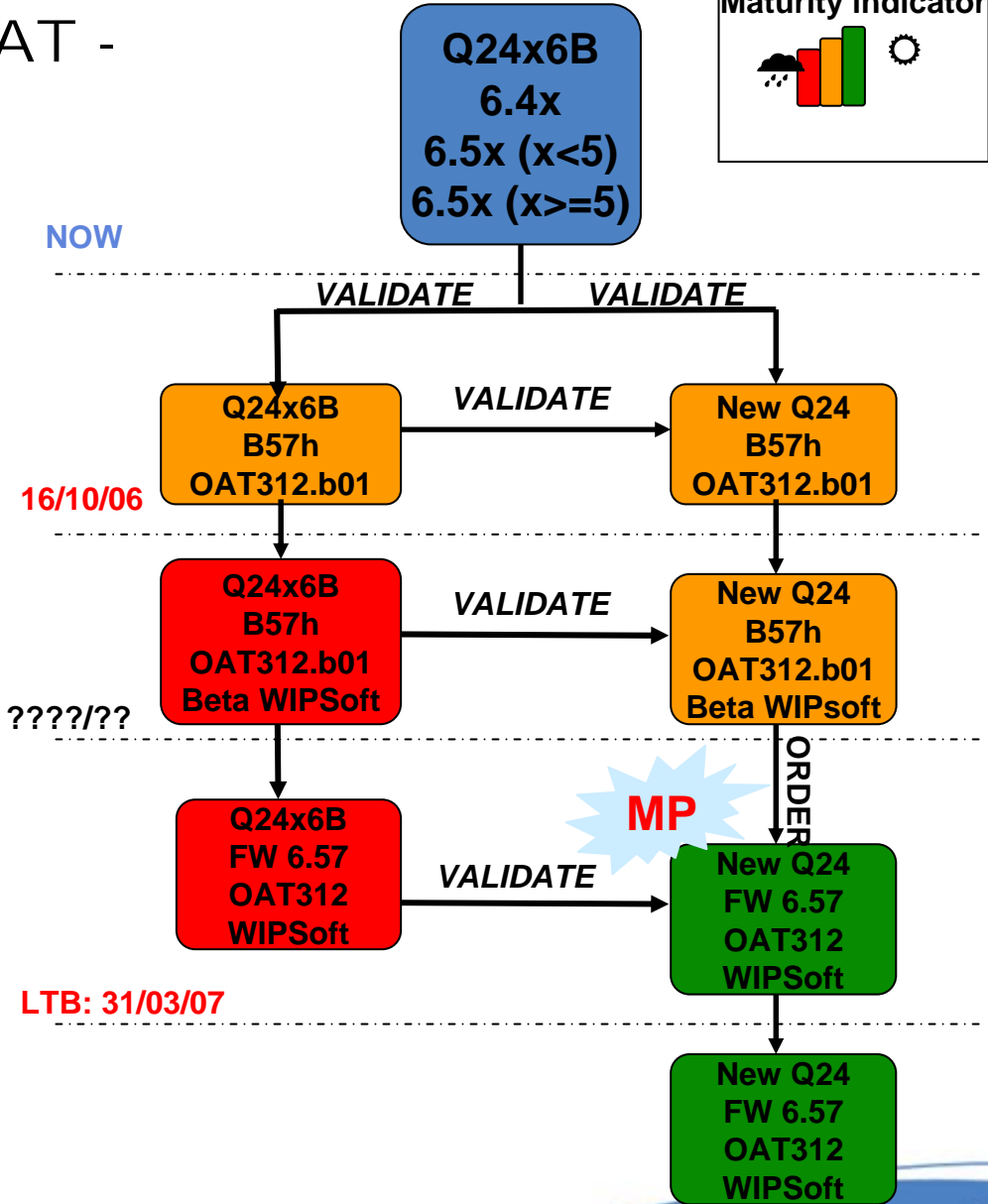
- No more eDsoft
- No more maintenance
Firmware after X44a or X52a
- Q2426B non ROHS

→ Consequence

- Urgent validation of
Q24Plus/6.57/WIPSoft
required

→ Key Message

- **Migrate ASAP to Q24Plus or
Q24Extended + WIPsoft**



WAVECOM©2005. All rights reserved



Q24x6B – Open AT – eDlib

→ Important Dates

- **LDD: 31/12/06**

→ Challenges

- No more eDlib
- No more maintenance Firmware after X44a or X52a
- Q2426B non ROHS

→ Consequence

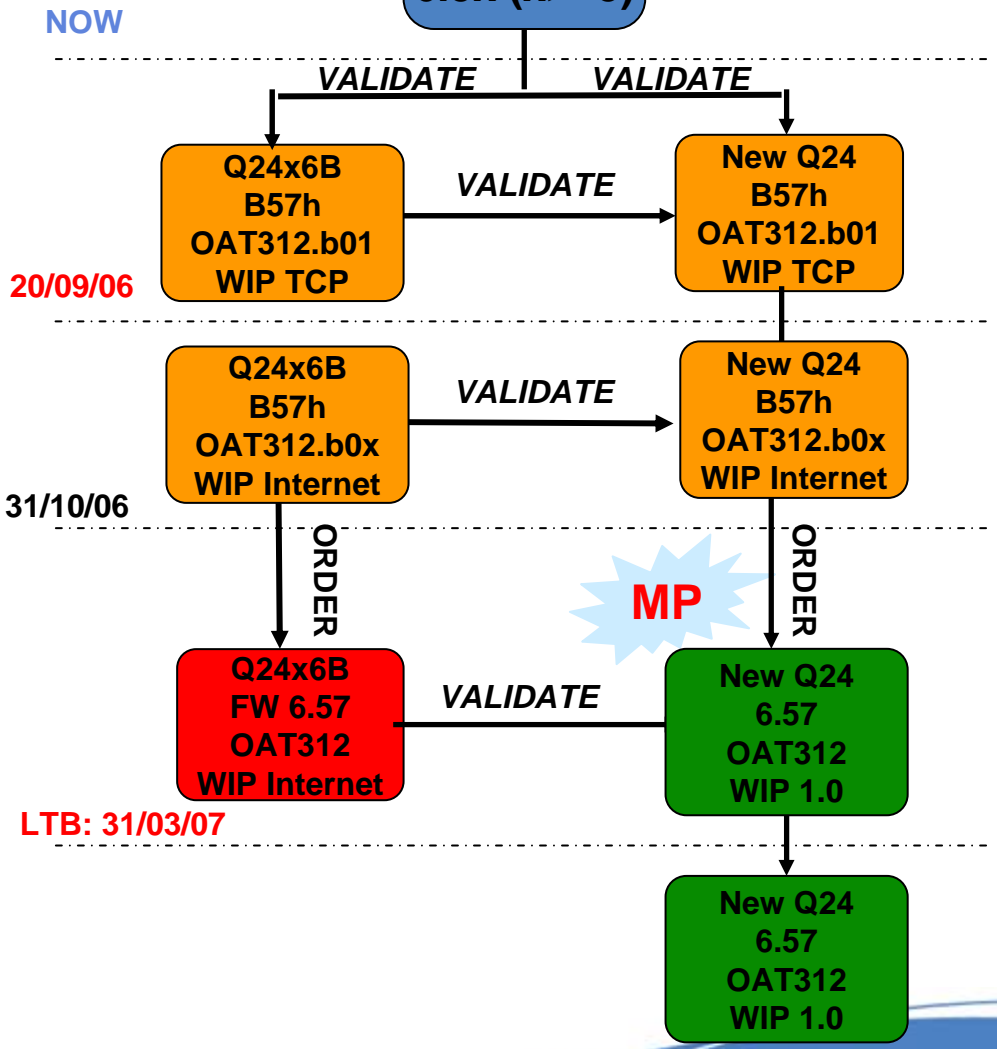
- Urgent validation of Q24Plus/6.57/WIP required

→ Key Message

- **Migrate ASAP to Q24Plus or Q24Extended + WIP**

Q24x6B
6.4x
6.5x (x<5)
6.5x (x>=5)

Maturity indicator



WAVECOM©2005. All rights reserved

Documentation related to Migration

	Reference	Title	Status	Storage
Hardware	WM_PRJ_Q24NG_PTS_004	Differences with the Q24xx sub-series	Preliminary	Web site
	WM_DEV_OAT_UGD_023	Tutorial to use Release Note Summaries	Preliminary	FTP Site
	WM_DEV_OAT_DVD_170	Release Note Summary for X50 to X52a OS	Preliminary	FTP Site
	WM_DEV_OAT_DVD_171	Release Note Summary for X41b to X44a OS	Preliminary	FTP Site
	WM_DEV_OAT_DVD_172	Release Note Summary for X55 to 6.57 OS	Preliminary	FTP Site
Firmware	WM_DEV_OAT_DVD_173	Release Note Summary for X41b to 6.57 OS	Preliminary	FTP Site
	WM_DEV_OAT_UGD_022	Open AT Porting Guide [v2.10b -> v3.10]	Preliminary	FTP Site
	WM_DEV_OAT_DVD_167	Release Note Summary for Open AT® v2.10b to v2.13	Preliminary	FTP Site
	WM_DEV_OAT_DVD_168	Release Note Summary for Open AT® v3.00 to v3.04	Preliminary	FTP Site
OpenAT	WM_DEV_OAT_DVD_175	Release Note Summary for Open AT® v3.10 to v3.12	Preliminary	FTP Site
TCP/IP	WM_DEV_OAT_IFS_41-003	IP Connectivity porting guide from AT# to WIP Soft	Preliminary	FTP Site



Commercial Feature Management

- Keys are necessary for eDevices TCP/IP
 - eDlib
 - eDsoft

- Keys are necessary for WIP and for WIPsoft

- Same Keys can be used for both TCP/IP stack
 - No key loss if you migrate from eDevices to WIP