

# PLUG IN TO THE WIRELESS WORLD

Product Roadmap

wavecom 产品路线图

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**wavecom** 

# WISMO evolution



**WISMO1A-G900**



**1997**

**WISMO1B-G900**

**WISMO1B-G1800**



**1998**

**WISMO1B-G1900**



**1999**

**WISMO2A-G900**

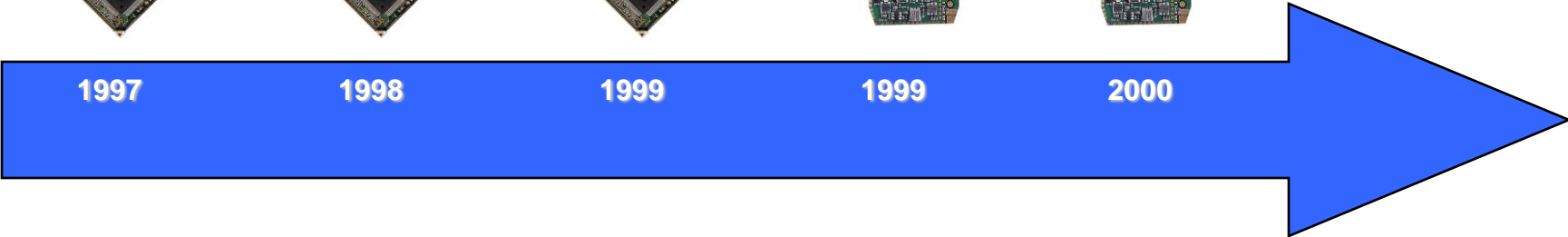


**1999**

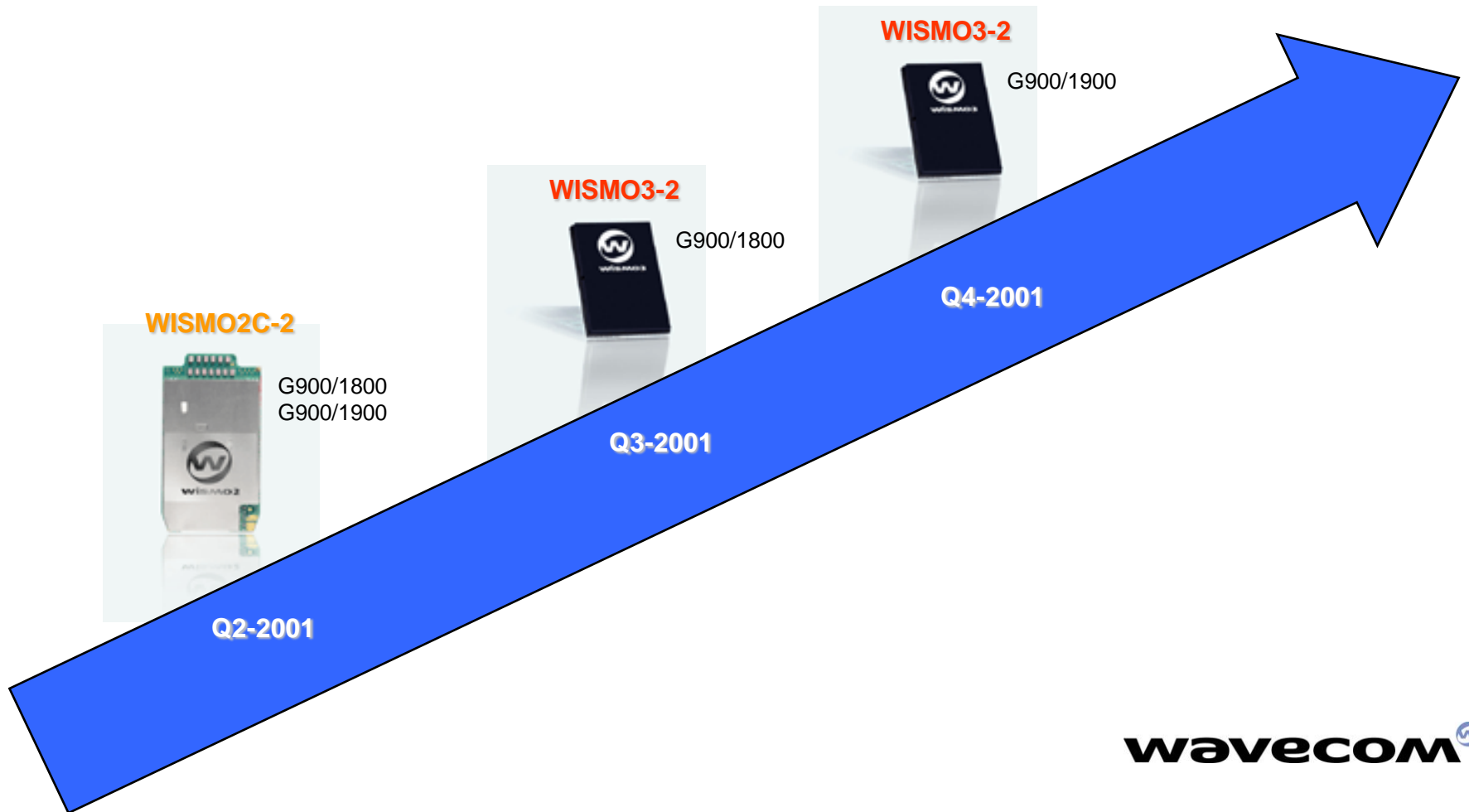
**WISMO2C-G900/1800**



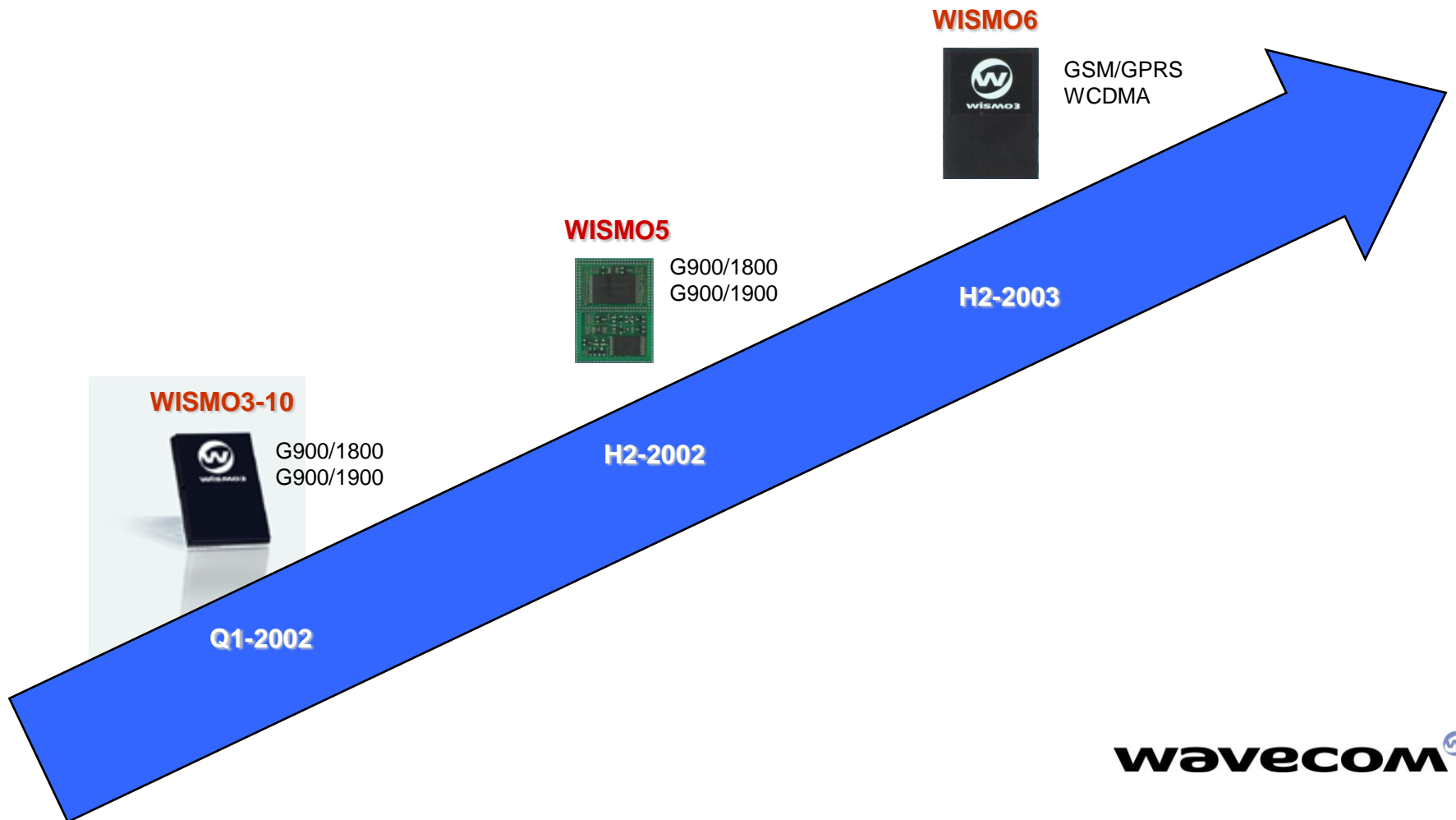
**2000**



# Module roadmap (2001)



# Module roadmap (2002-2003)



# Modules: milestones



	<b>Samples</b>	<b>Mass Prod</b>	<b>Firmware</b>
<b>WISMO2C G900/1800</b>	Available	Running	GSM
<b>WISMO2C G900/1900</b>	Available	Running	GSM
<b>WISMO2C-2 G900/1800</b>	mid 04/01	07/01	GSM-GPRS Cl. B / Cl. 2
<b>WISMO2C-2 G900/1900</b>	05/01	07/01	GSM-GPRS Cl. B / Cl. 2
<b>WISMO2C-10 G900/1800</b>	Q1/02	TBC	GSM-GPRS Cl. B / Cl. 10
<b>WISMO2C-10 G900/1900</b>	Q1/02	TBC	GSM-GPRS Cl. B / Cl. 10

	<b>Samples</b>	<b>Mass Prod</b>	<b>Firmware</b>
<b>WISMO3-2 G900/1800</b>	05/01	09/01	GSM-GPRS Cl.B / Cl. 2
<b>WISMO3-2 G900/1900</b>	07/01	10/01	GSM-GPRS Cl.B / Cl. 2
<b>WISMO3-10 G900/1800</b>	12/01	03/02	GSM-GPRS Cl. B / Cl. 10
<b>WISMO3-10 G900/1900</b>	12/01	03/02	GSM-GPRS Cl. B / Cl. 10

# Modem roadmap



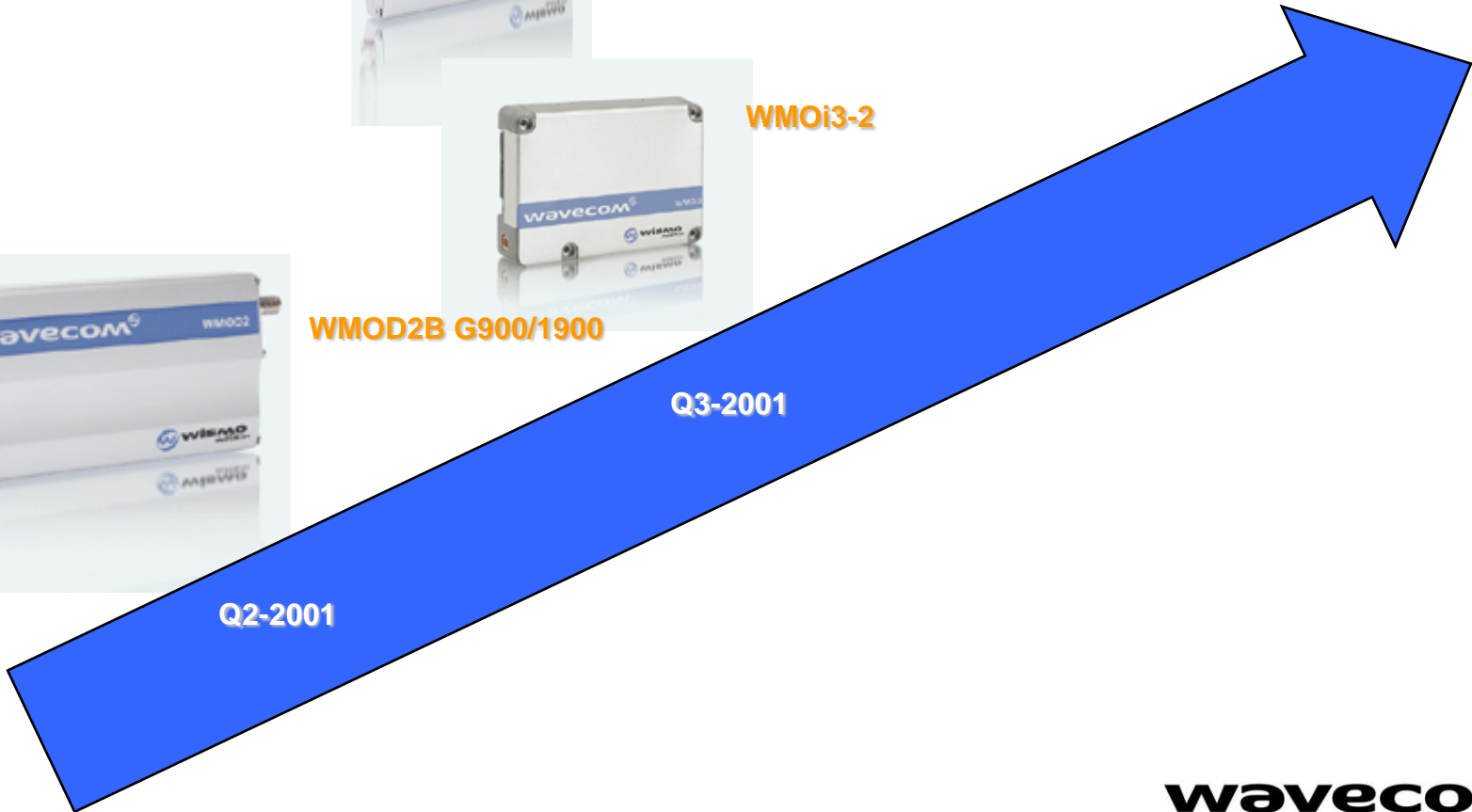
**WMOD2B-2**



**WMOi3-2**



**WMOD2B G900/1900**



# Modems: milestones



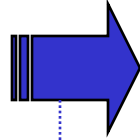
	<b>Samples</b>	<b>Mass Prod</b>	<b>Firmware</b>
<b>WMOD2B G900/1800</b>	Available	Running	GSM
<b>WMOD2B G900/1900</b>	05/01	07/01	GSM
<b>WMOD2B-2 G900/1800</b>	07/01	09/01	GSM-GPRS Cl. B / Cl. 2
<b>WMOD2B-2 G900/1900</b>	07/01	11/01	GSM-GPRS Cl. B / Cl. 2
<b>WMOi3 G900/1800</b>	Available	Running	GSM
<b>WMOi3 G900/1900</b>	Available	Running	GSM
<b>WMOi3-2 G900/1800</b>	07/01	09/01	GSM-GPRS Cl. B / Cl. 2
<b>WMOi3-2 G900/1900</b>	07/01	11/01	GSM-GPRS Cl. B / Cl. 2

# Evolution: WMOD2B-2



WMOD2B

GSM 900/1800 or GSM 900/1900



WMOD2B-2

900/1800 : GSM only and GSM-GPRS Cl.2

900/1900 : GSM only and GSM-GPRS Cl.2

- Size: WMOD2B – 25mm
- 2 additional I/F signals (on pwr supply connector): GPIO + INTR
- SIM interface: 3V only
- Autoshutdown driven by AT cmds

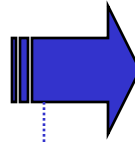


# Evolution: WMOi3-2



WMOi3

GSM 900/1800 or GSM 900/1900



WMOi3-2

900/1800 : GSM only and GSM-GPRS Cl.2

900/1900 : GSM only and GSM-GPRS Cl.2

- 5V / 1A power supply

# Evolution: $\Delta$ WMOi3/WMOi3-2

	<b>WISMO2C / WMOi3</b>	<b>WISMO2C-2 / WMOi3-2</b>	<b>Comments</b>
<b>VCC-RTC (WM2C-pin56)</b>	Min: 2.0V - Max: 2.8V	Min: 2.25V - Max: 2.75V	To be left open if not used - N/A WMOi3
<b>ADC</b>	@25°C	@25°C	To be tied to GND if not used
<b>(WM2C-pins33 and 38 / WMOi3-pin17)</b>	ADC ref accuracy: 0.5%	ADC ref accuracy: 0.75%	Transparent for applications based on AT commands
	Input signal range: 2.5V	Input signal range: 2.8V	
<b>Digital I/Os output currents</b>	$I_{ol} / I_{oh} (1X) = 1\text{mA}$	$I_{ol} / I_{oh} (1X) = 0.5\text{mA}$	
	$I_{ol} / I_{oh} (2X) = 2\text{mA}$	$I_{ol} / I_{oh} (2X) = 1\text{mA}$	
	$I_{ol} / I_{oh} (3X) = 3\text{mA}$	$I_{ol} / I_{oh} (3X) = 2\text{mA}$	
<b>Maximum speaker gains (depending on speaker impedance)</b>	Limitation in the speaker gains (recommended).	Limitation in the speaker gains (mandatory).	The applications using speaker < 150 Ohms can't use the highest speaker gain levels. This is true for the speaker outputs only (not for the buzzer output)
<b>Additional GPIO</b>	WM2C-Pin35 is reserved	Pin35 is GPIO5	N/A WMOi3
<b>AT commands interface</b>		Additional AT commands for GPRS operations	

# GPRS schedule



<b>Q2/2001</b>	<b>Q4/2001</b>
<b>GPRS Class 2</b>	<b>GPRS Class 10</b>
Class B All coding schemes	Class B All coding schemes

# Open Software Platform (AT commands version)

- Open-AT is a software feature allowing a customer to embed and run a simple application onto a Wavecom device.

- Customer benefits

Using the open software platform, integrators and application developers can:

- save external hardware ⇒ cost reduction
- shorten development time ⇒ quicker time to market
- use the GSM unit as a stand-alone system ⇒ independancy of the wireless subsystem
- access to a rich and differentiated set of existing reference applications ⇒ open solutions

- Milestones:

End 04/01: SDK beta version (restricted version)

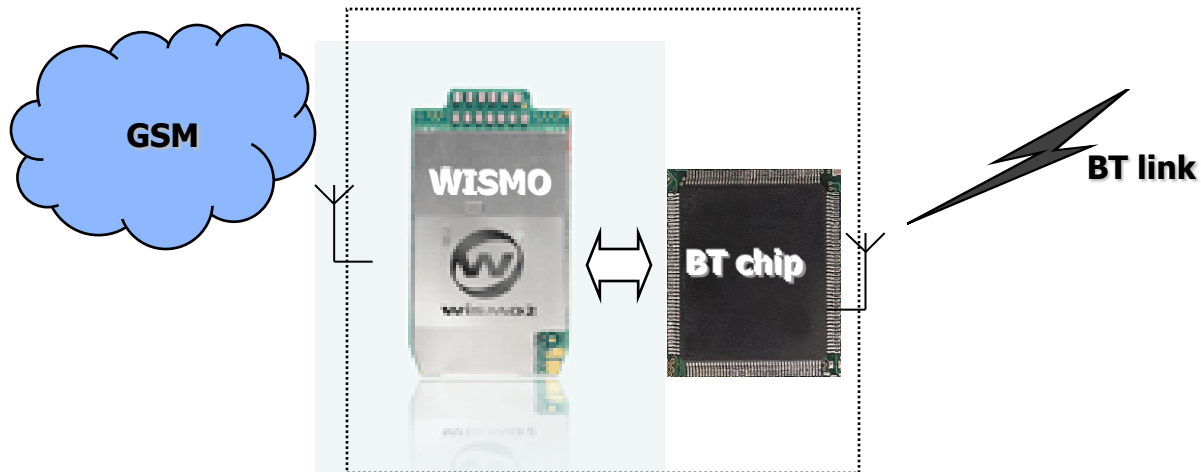
04-07/01: beta+pilot test

09/01: full commercial availability (full version)

# Bluetooth offer

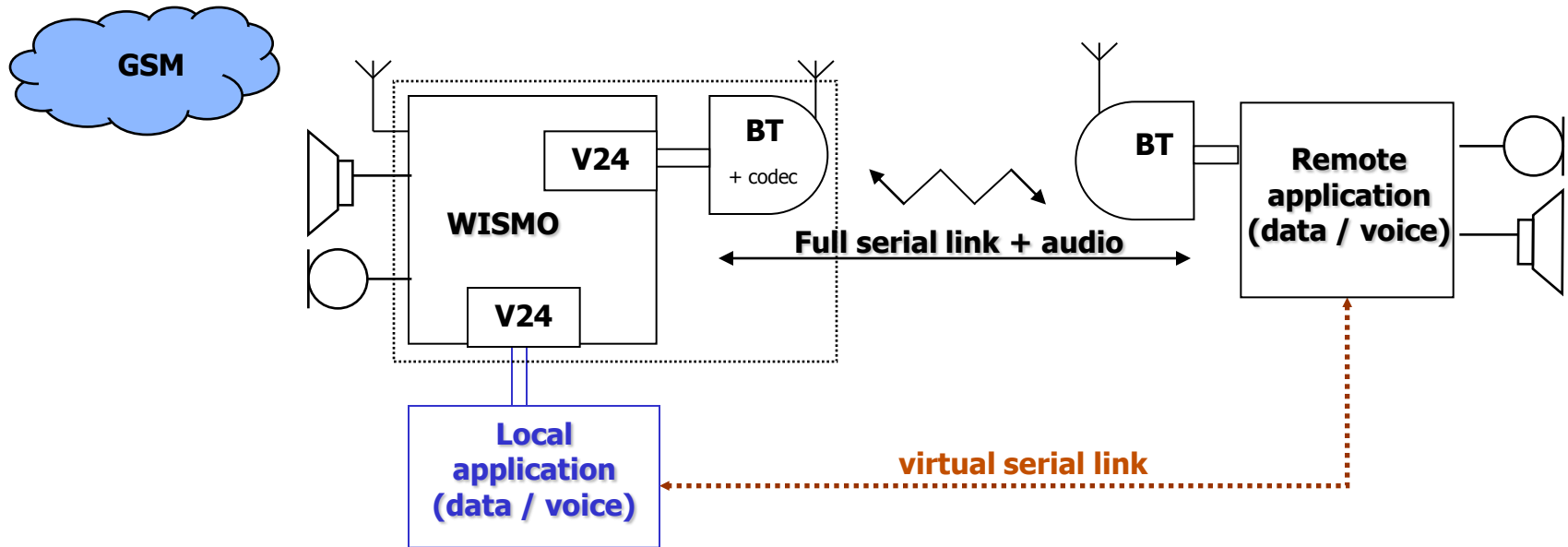


- Wavecom offer: Bluetooth connectivity on WISMO (module)
  - WISMO can be interfaced with an external Bluetooth module
  - WISMO + external BT module can drive or be driven by a Bluetooth device
- Deliverables (starting Q4/01):
  - Software (BT stack) to be embedded into the WISMO
  - Application schematics to interface WISMO with an external BT chip/module\*



\* Depending on the external BT solution used, some additional electronics might be needed: codec, quartz, antenna,...

# Bluetooth implementation



- 1<sup>st</sup> mode: serial link + audio over BT
- 2<sup>nd</sup> mode: client app requires BT device detection through the module + synchronisation between module and BT device
- 3<sup>rd</sup> mode: virtual serial link between client app and BT device