

# Getting Started with Open AT® v3.03

Revision: **001** Date: **November 2005** 





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



# **Getting Started with Open AT® V3.03**

**Revision**:

001

Date:

Reference:

29<sup>th</sup> November 2005 WM\_ASW\_OAT\_CTI\_00005

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# **Document History**

Index	Date	Versions	
001	November 29 <sup>th</sup> 2005	Created	

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## **1. Introduction**

## **1.1. About this document**

This document describes how to quickly start with the Open  $\mathsf{AT}^{\texttt{B}}$  Software Development Kit.

## **1.2. Open AT<sup>®</sup> SDK Documentation**

The following documents are included in the Open AT<sup>®</sup> SDK:

Document	Description
Getting Started with Open AT®	Description of the first steps to use Open AT <sup>®</sup> .
Tutorial	Tutorial for the development of Open AT <sup>®</sup> applications.
<i>Open AT® ADL Development Guide</i>	Guide for the development of Open AT <sup>®</sup> application with the Development Layer (ADL).
<i>Open AT<sup>®</sup> Basic Development</i> <i>Guide</i>	Guide for the development of Open AT <sup>®</sup> basic applications. This document includes the description of the Open AT <sup>®</sup> basic APIs.
Tools Manual	Manual describing the tools available in the Open AT <sup>®</sup> SDK.
AT commands Interface Guide	Description of the AT commands supported in the Open AT <sup>®</sup> firmware.
Open AT <sup>®</sup> release note	Release note listing the Open AT <sup>®</sup> design features as well as the new features.

**NOTE:** All reference manuals are provides in PDF format. The Adobe Acrobat Reader can be downloaded from Adobe's web site at **http:\\www.adobe.com**. The recommended version is Version 5.0 or higher.

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## 2. Software installation

To develop and test Open AT<sup>®</sup> applications you must install the Open AT<sup>®</sup> SDK. This chapter guides you through the installation of the Open AT<sup>®</sup> SDK.

## 2.1. System Requirements

To install the Open AT<sup>®</sup> SDK, your system must support one of the following operating systems :

• Windows 98 / NT / Me / 2000 / XP

IMPORTANT WARNING : The provided GCC compiler runs only on Windows NT/2000/XP versions (it is not supported on Windows 98/ME systems).

## 2.2. Hardware Requirements

The main requirements for the PC that will support the Open AT<sup>®</sup> SDK are:

 Pentium 300 MHz or higher with at least 128 MB of RAM and 500 MB free on the hard disk

(Recommended : CPU speed 1GHz or higher, RAM : 256 MBytes or more)

- A CD-ROM drive (for software installation)
- At least 1 free COM (serial) port for the communication with the target product

## 2.3. Software Requirements

• Microsoft Visual C++ Version 6.0

```
or
Microsoft Visual C++ .NET 2002 edition (7.0)
or
Microsoft Visual C++ .NET 2003 edition (7.1)
```

ARM Compiler

Open AT<sup>®</sup> applications may be built for target mode or remote mode. The Visual C++ environments are required for the remote mode, and may be used also to build projects in target mode.

**IMPORTANT:** The ARM compiler is included in the SDK as an option. The compiler must be compatible with the Open AT<sup>®</sup> software version. In case the ARM compiler has not been ordered with the Open AT<sup>®</sup> SDK, please check that your current version of the ARM compiler is compatible with the Wavecom core software<sup>1</sup>.

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<sup>&</sup>lt;sup>1</sup> For ex. if the Wavecom core software has been compiled with the ARM ADS 1.2 compiler, the Open AT® application (embedded application) must be compiled with the same compiler version.

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# **3. Installing the Open AT<sup>®</sup> SDK**

Insert the Open AT<sup>®</sup> SDK CD-ROM in the drive on your PC. If the auto-start is enabled, the installation will automatically start.

If the auto-start is disabled or for some reason the auto-installation does not start, you can use Windows Explorer to launch \autorun\autorun.exe from the root folder of the CD-ROM.

After this, the following menu is displayed.

🎨 Open AT v3r	XX Setup	× 1
	READ ME	PLATFORM
		TOOLKIT
	OPEN AT DOCUMENTATION     EXPLORE THE CD	
	exit	OPEN AT
		wəvecom®

Figure 1 - Open AT<sup>®</sup> startup screen

Several operations are possible from this menu:

- Display the Readme.html file, which describes the CD-ROM contents.
- Install the Open AT<sup>®</sup> SDK.
- Install the Development Toolkit
- Display documentation HTML file, which allows to access to all documents related to Open AT<sup>®</sup>.
- Explore the CD-ROM contents.
- Exit the Open AT<sup>®</sup> installation program.

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To install the Open AT<sup>®</sup> SDK, choose install Open AT. The setup program will then run.



Figure 2 - Open AT<sup>®</sup> setup

Select Next to continue



## **3.1. Setup options**

Three components can be installed either together or separately. The available components are :

- Open AT<sup>®</sup> SDK, with libraries, header files and the documentation in PDF format;
- Open AT<sup>®</sup> application samples, with sources, built binaries and HTML documentation ;
- Wavecom Software Generation Toolkit, used to build Open AT<sup>®</sup> applications in target mode;
- Cygwin : this tool is a Linux environment running under Windows. The provided version on the CDROM is the 1.5.10 one ; it is recommended to use this version since SGT and provided GCC compiler are designed to run with.
- GCC Cross-Compiler : to build Open AT<sup>®</sup> target applications. The provided version is correctly running on Cygwin 1.5.10 version (based on Windows NT / 2000 / XP systems).

•	TCP/IP A	Add-on :	additional	Open A	T <sup>®</sup> TCP/IP	functionalities.
---	----------	----------	------------	--------	-----------------------	------------------

Open AT V3.XX Setup	S
Setup options	
Please select the Open AT components you w (* : already installed component, or higher versi	ant to install : on installed)
🔽 Open AT SDK	🔽 [Add-on] TCP/IP v3.XX
Application Samples	
🔽 SGT v1.2.11	
🔽 Cygwin v1.5.10	
GCC Compiler v3.0.4	
In the IIC Internal	
Instaliphield	< <u>B</u> ack <u>Next</u> > Cancel

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Figure 3 – Setup options

The Setup program is able to detect already installed components. For such components, the corresponding check box will be disabled, and the \* tag will be displayed.

🔲 SGT	v1.2.11 *
-------	-----------

Figure 4 – Already installed component

After the choice of the setup options, select <u>Next</u> to continue.

#### **3.2. Destination of the Program and Documentation Files**

The Open AT<sup>®</sup> SDK can be installed in any directory on your hard disk.

Open AT V3XX Setup	S
Choose Destination Location	
Select folder where Setup will install files.	1 Total Andrews
Setup will install Open AT in the following fold	er.
To install to this folder, click Next. To install to another folder.	a different folder, click Browse and select
Destination Folder	
C:\OpenAT\V3XX	B <u>r</u> owse
	< <u>B</u> ack <u>Next&gt;</u> Cancel

Figure 5 – Open AT<sup>®</sup> Destination Folder

The default location, as shown in the example above, is in a folder named with the version number of the Open AT<sup>®</sup> SDK. By default, it is installed under the root folder of the **C**: drive. If this location is not suitable, enter a different path before clicking <u>Next</u>. The files will be copied under the specified destination folder.

#### Warning : this path must not include any space character.

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## **3.3. Additional libraries path**

If TCPIP Add-on option is selected, the setup will require a path to configure the WMLIBHOME environment variable, where Open AT<sup>®</sup> additional libraries are or will be installed.

Select another folder if the default one is not suitable, and click Next.

Open AT V3.XX	Setup		<b>X</b>
Path for additio	onal Libraries		1 Total
Please select t	the folder where additional libra	ries will be located	
Destination F	Folder \OtherLibs		Browse
Instalionield ———		< <u>B</u> ack <u>Next</u> >	Cancel

Figure 6 - Additional libraries path

Warning : this path must not include any space character.

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## **3.4. Tools path**

Since Open AT<sup>®</sup> tools (as SGT, or GCC compiler) are independent of the Open AT<sup>®</sup> SDK release, they will be installed in a specific folder. If GCC or SGT options are selected, the setup will require this path to configure the WMTOOLS environment variable, where Open AT<sup>®</sup> tools are or will be installed.

Select another folder if the default one is not suitable, and click Next.

Open AT V3XX Setup	8
Path for Open-AT tools	
Please select the folder where Open-AT tools (a	as SGT and GCC compiler) will be installed.
Destination Folder C:\OpenAT\Tools	Bīowse
	< <u>B</u> ack <u>Next &gt;</u> Cancel

Figure 7 – Tools path

Warning : this path must not include any space character.



## **3.5. Cygwin setup**

If the Cygwin component is selected, the Cygwin setup is launched during the file copy.

Firstly, a message box informs that **all** the provided packages have to be installed.



Figure 8 - Warning about the package selection window

• On Cygwin setup welcome screen, click Next ;

🔄 Cygwin Setup	
	Cygwin Net Release Setup Program
	This wizard will guide you through the installation and updating of the Cygwin environment and a plethora of GNU packages.
	E
	Setup.exe version 2.427
	Copyright 2000, 2001 Red Hat Inc.
	http://sources.redhat.com/cygwin/
	< <u>P</u> récédent <u>Suivant</u> Annuler

#### Figure 9 - Cygwin setup

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• Select the "Install from Local Directory" option, and click Next ;

E Cygwin Setup - Choose Installation Type	🛛
Choose A Download Source Choose whether to install or download from the internet, or install from files in a local directory.	E
C Install from Internet	
Uownload from Internet	
Install from Local Directory	
< <u>P</u> récédent <u>S</u> uivant > Ar	inuler

Figure 10 – Install from Local Directory

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• Select the directory where you want to install Cygwin and click Next ;

E Cygwin Setup - Choose Installation Directory		
Select Root Install Directory Select the directory where you want to insta installation parameters.	all Cygwin. Also choose a few	E
Root Directory C:/cygwin		B <u>r</u> owse
Install For	Default Text File Type О D <u>D</u> S О <u>U</u> nix	
	< <u>P</u> récédent <u>S</u> uivant >	Annuler

Figure 11 – Install root directory

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 Check your cdrom drive \Software\Cygwin sub-directory is well selected, and click Next;

💽 Cygwin Setup - Select Local Package Directory	. 🗆 🔀
Select Local Package Directory Select a directory where you want Setup to store the installation files it downloads. The directory will be created if it does not already exist.	2
Local Package Directory E:\Software\Cygwin Browse	
< <u>P</u> récédent <u>Suivant</u> Annul	ler

Figure 12 – Local package directory

Please wait while Cygwin setup is reckoning checksums on provided packages ;

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• The Package selection window is then displayed

🔄 Cygwin Setup - Selec	ct Packa	ges					🛛
Select Packages Select packages	to instal	I					E
		⊖ <u>K</u> eep	O <u>P</u> rev	• Curr (	) Е <u>х</u> р	<u>V</u> iew	Category
Category	Curr	New		Bi Sr	Pack	age	<u>^</u>
+ All 🚯 Default							
+ Archive 🚯 Defa	ault						
+ Base 🚯 Default							=
+ Database 🚯 De	efault						
+ Devel 🚯 Defaul	lt						
+ Doc 🚯 Default							
+ Editors 🚱 Default							
+ Interpreters 🚯 D	+ Interpreters 🚱 Default						
+ Libs 🚯 Default							_
+ Mingw 🚯 Defau	ult						~
<	1	11					>
			<	Précédent	<u>S</u> uiva	nt >	Annuler

Figure 13 - Package selection window

📴 Cygwin Setup - Sele	ect Packa	iges					🛛
Select Packages Select package	s to insta	I					E
		С <u>К</u> еер	⊖ <u>P</u> rev	⊙ <u>C</u> urr	⊖ E <u>x</u> p	<u>V</u> iew (	Category
Category	Curr	New		Bi Sr	Pack	age	<u> </u>
+ All 🜒 Install							
+ Archive 🚯 Inst	tall						
+ Base 🚯 Install							
+ Database 🚯 Ir	nstall						
+ Devel 🚯 Insta	II						
+ Doc 🚱 Install							
+ Editors 🚱 Insta	all						
+ Interpreters 📀	Install						
+ Libs 📀 Install							
🕂 + Mingw 🎲 Insta	all						<b>~</b>
	1						>
			<	<u>P</u> récédent	<u>S</u> uiva	nt >	Annuler

Figure 14 – All packages are selected

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• Then the Cygwin setup will install all the packages in the selected directory.

💽 7% - Cygwin Setup		
<b>Progress</b> This page displays the progress of the dowr	nload or installation.	E
Installing binutils-20040312-1 /usr/lib/libbfd.a Progress:		
Total:		
Disk:		_
	< <u>P</u> récédent <u>S</u> uivar	t> Annuler

Figure 15 - Cygwin setup is running

• Finally, the Cygwin setup prompts for Icon creation options...

🔄 Cygwin Setup - Create Icons	- 🗆 🔀
<b>Create Icons</b> Tell setup if you want it to create a few icons for convenient access to the Cygwin environment.	E
✓ Create icon on <u>D</u> esktop	
I ✓ Add icon to <u>S</u> tart Menu	
< Précédent Terminer A	Annuler

Figure 16 – Cygwin icons options

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... and Cygwin setup is done

Cygwin Setup	
Installation Co	mplete
[ОК	

Figure 17 – Cygwin setup is done

## 3.6. File copy and system update

The setup program will now copy the Open AT<sup>®</sup> SDK files on your hard drive.

Copying GCC C:\OpenAT\Tools\GCC	\man\man1\arm	i-elf-gcc.1
	64%	
	Cancel	

Figure 18 - Open AT® SDK files copy

When the copy is complete, the setup program updates your system. Then, on Windows NT/2000/XP systems, a simple message box will be displayed ; on older systems, the user will be prompted to restart the computer, since environment variables were modified.

Information	n 😰
(į)	Open-AT setup is completed
	ОК

Figure 19 – Setup is completed

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## **3.7. Installed shortcuts in the Start Menu**

The Open AT<sup>®</sup> setup installs three shortcuts in the **Start\Wavecom\Open AT<sup>®</sup>** menu :

- Open AT<sup>®</sup> settings application (cf. Tools Manual) ;
- Open AT<sup>®</sup> Project Wizard application (cf. Tools Manual) ;
- Open AT<sup>®</sup> HTML Read Me, which allows to browse the Samples HTML files, and the provided Documentation PDF files.



Figure 20 – Open AT<sup>®</sup> shortcuts

## 3.8. Wavecom Development Toolkit

The Wavecom Development Toolkit is a tools set usable to display debug information, exchange AT commands with the Wavecom products, and handle the serial ports in order to run the remote task environment.

On the Open AT<sup>®</sup> startup screen (cf. §3, figure 1), select the "<u>Install</u> <u>Development Toolkit</u>" option. This starts the Wavecom Development Toolkit Setup program. Please follow the displayed indications to complete this installation.

On Windows 98/ME systems, at the end of the Setup program, please select the "<u>Yes</u>" option when you are asked to restart your computer, in order to update your configuration.

## 3.9. ARM Compiler

In order to build Open AT<sup>®</sup> application with the ARM compiler, this one must be installed separately on your computer.

After the end of Open AT<sup>®</sup> and Development Toolkit set up, insert the ARM compiler CD-ROM and run the Setup program. Please follow the indications displayed to complete this installation.

#### Important Note :

Wavecom SGT browse the directory defined by the **ARMDLL** environment variable to find the ARM compiler binaries (**tcc.exe** and others...). This environment variable should be set by the ARM compiler setup. If the **ARMDLL** environment variable is not set, compilation processes with the ARM compiler will fail.

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## 3.10.Cygwin bash shell settings

The bash shell settings will be automatically updated by the Open AT<sup>®</sup> setup.

For information, the .bashrc configuration file will be created in the /home/\$USER/.bashrc (by default, /home is the C:\Cygwin\home directory under Windows). This file will be updated to start the SGT environment on each bash shell start-up.

## 3.11.Environment variables setup

Once installed, the environment variables should be modified by the Open AT<sup>®</sup> Settings application (cf. Tools Manual).

For information, the Open AT<sup>®</sup> Settings handles the following environment variables on your system.

Variable name	Use
WMATHOME	Location where Open AT <sup>®</sup> is installed, in Cygwin format (by default /cygdrive/c/OpenAT/V303)
WMATHOME_DOS	Location where Open AT <sup>®</sup> is installed, in Windows format (by default C:\OpenAT\V303)
WMGCCHOME	Location where the GCC cross-compiler is installed, in Cygwin format (by default /cygdrive/c/OpenAT/Tools/GCC)
WMLIBHOME	Location where additional libraries are installed, in Windows format, but with '/' character instead of '\' one (by default c:/OpenAT/OtherLibs)
WMTOOLS	Location where common Open AT <sup>®</sup> tools are installed, in Cygwin format (by default /cygdrive/c/OpenAT/Tools
SGT_DIR	Location where the Wavecom Software Generation Toolkit in installed, in Cygwin format (by default /cygdrive/c/OpenAT/Tools/SGT/v1.2.11
PATH	The PATH variable has always to include the %WMATHOME_DOS%\TgtGen\WmGen directory

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## 4. Additional Libraries packages

Add-on libraries (as TCPIP for example) are installed in the Add-on directory (by default C:\OpenAT\OtherLibs). Once installed, each package architecture is :

LibName∖

			Library	package name
vX.YY\			Version	sub-directory
	rte_Name.lib		Library	for Visual C++ compilers
	arm_Name.lib		Library	for ARM compiler
	gcc_Name.lib		Library	for GCC compiler
	inc\	*.h	Library	header files
	doc\	*.pdf	Library	API documentation and
			release	note

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## 5. Support

Our goal is to provide you with professional assistance in the use of the Open  $AT^{\mbox{\tiny \$}}$  software.

### 5.1. Contact Us

We are pleased to support you via e-mail, phone or fax. You can also get some support material from our web site.

Depending on your location, please contact:

For Europe / Middle East / Africa	For Asia Pacific	For Americas
<ul> <li>Wavecom SA</li> <li>Technical Support</li> <li>esplanade du Foncet</li> <li>92442 Issy Les Moulineaux</li> <li>FRANCE</li> </ul>	<ul> <li>Wavecom Asia Pacific Ltd</li> <li>Technical Support</li> <li>5/F, Shui On Centre</li> <li>6/8 Harbour Road - Wan Chai</li> <li>HONG KONG - PRC</li> </ul>	<ul> <li>S Wavecom Inc</li> <li>Technical Support</li> <li>610 West Ash Street, Suite</li> <li>1400</li> <li>SAN DIEGO, CA 92101 - USA</li> </ul>
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## 5.2. World Wide Web

You can get general information and support material on Open AT<sup>®</sup> at: <u>http://www.wavecom.com</u>

The MUSE Platform section you will allow you to access the Open AT<sup>®</sup> dedicated section from the Wavecom web site. Through this, you will be able to get and share technical and marketing knowledge about Open AT<sup>®</sup>.

Registered customers will also have access to the Customer Support section to download the latest updates on Open  $AT^{\mbox{\tiny B}}$ .

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## 5.3. GCC compiler support

Wavecom does not offer any support on the GCC cross-compiler provided with the Open AT<sup>®</sup> SDK. To get assistance on this compiler, please refer to the http://gcc.gnu.org website.

## 6. Warranty

<u>Caution</u>: All products under warranty that are sent back to Wavecom for repair must be free of any embedded application.

Wavecom will return all Open AT<sup>®</sup> compatible products under warranty with the default factory configuration.

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