

RELEASE NOTE

Open AT® OS V4.01

Revision: 002
Date: September 2006

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

Open AT® OS V4.01
Release Note

Reference: **WM_DEV_OAT_DVD_181**
Version: **002**
Date: **September 06, 2006**

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Document Information

Level	Date	History of the evolution	
001	August 29, 2006	Creation	
002	September 6 2006	Update	

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1 Introduction

1.1 Related Documents

[1]	ADL User Guide for Open AT® V4.01	WM_DEV_OAT_UGD_007
[2]	Open AT® IP Connectivity Development Guide	WM_DEV_OAT_UGD_021
[3]	OS 6.60 Release Note	WM_DEV_OAT_DVD_091

1.2 Delivered Version Definition

This definition lists all modifications since the Open AT® V4.00 release.

1.3 Correction Severity Levels

The *Severity* values have the following meaning:

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

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2 New Services & Modified Interfaces

2.1 Open AT® TCP/IP Plug-In

The Open AT® V4.01 SDK supports the Open AT® TCP/IP Plug-Ins.
This service is dedicated to all users of Open AT® OS who need to communicate over UDP and TCP socket layer, be it through wireless link such as GPRS and GSM CSD (Circuit Switched Data) or wired links such as UART or CMUX virtual ports that are provided within Wavecom wireless CPUs. Services over socket layer such as FTP, HTTP or SMTP/POP3 are not included in this version but will be available in a future version.

Please refer to the Open AT® IP Connectivity Development Guide **[2]** for more information.

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3 OPEN AT® FW v6.60 Update

3.1 Delivery

The OPEN AT® FW v6.60 is delivered on the SDK for all Open AT® compatible modules.

As there are no specific module versions designed for specific countries, the firmware delivery directory is Software\Wavecom Core Software\660

3.2 Corrections

The firmware has not been updated in the Open AT® SDK V4.01 release.

Please refer to the OPEN AT® FW v6.60 full release note (see document [3]) for more information.

4 ADL API Update

The ADL API has not been updated in the Open AT® OS V4.01 release.

The API is the same as that of the Open AT® OS V4.00 release.

For more information, please refer to the ADL User Guide for Open AT® V4.01 (see document [1]).

5 Basic API Update

The Basic API has not been updated in the Open AT® OS V4.01 release.

The API is the same as that of the Open AT® OS V4.00 release.

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6 Tools Update

6.1 New Features

Id	Description (What / When)	Interface Change
NEW33950	A new -noppinc option is available with wmnew script, in order to add standard header include paths to project settings.	Yes

6.2 Corrections

Id	Severity	Description (What / When)	Interface Change
DEV34022	3	When many source files (more than 100 .c files) are used for an Open AT application, the wmnew script & Open AT Wizard tool take some time to generate the project.	No
CUS33941	1	If a computer's 'D:' drive is a CD-ROM drive instead of a hard disk, and if no disk is present in the drive, GCC compilation will fail since standard include paths are not found.	No

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7 Samples Update

Three new samples have been added in the Open AT® TCP/IP Plug-In

- tcp_udp:

This sample application initializes the TCP/IP stack over GPRS or as a PPP server over UART2, and echoes everything sent to it uppercased. Moreover, it logs its actions and multiple clients can connect to a TCP server and receive all log messages.

- udp_rcv:

This sample application waits for UDP packets and displays them on the WIP debug output (set by the sample to UART1). It can work over PPP server or over GPRS.

- udp_snd:

This sample application sends UDP packets to a hard-coded IP address and port number at a configurable time interval. It can work over PPP server or over GPRS.

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8 Restrictions & Known Problems

8.1 Open AT® TCP/IP Plug-In Restrictions

Id	Description (What / When)
ANO35261	When connecting 2 modules (DCE) with null modem cable, if WIND indications and echoes are enabled on the serial port concerned, the module enters an endless "watch dog" reset loop. This is systematically the case with the default configuration and one open AT application.
ANO35165	Call events are not forwarded when the GSM bearer is connected (even if ADL_CALL_FORWARD is called in a call service subscription)
ANO35192	WIP_COPT_MAXSEG option has no effect on TCP/UDP channels. Neither associated wip_getOpt() nor wip_setOpt() API supports these options.

8.2 Known Problems

Open AT® V4.01 OS, FW, IDE, SDK known problems are the following:

Id	Description (What / When)
CUS34821	Troubles in the Cygwin setup program sometimes cause problems with the user's computer system configuration. The user has to modify the settings himself, thanks to the workarounds described in the Tools Manual document annex.
ANO34565	In RTE mode, with some applications which use the ADL API frequently (e.g to send/receive a large amount of data), the application may sometimes stop on an assertion failure (afxtempl.h file, line 666). Most of time, using the "Ignore" button should allow the application to go further.
33454	With some applications, when the application is suspended and then resumed using the AT+WOPENRES command, the AT commands may be frozen (the application does not live anymore). Module control can be resumed by stopping the application (AT+WOPEN=0)
33294	Target reset when trying to subscribe to the BUS service several times when associated GPIOs are not free.
33039	After performing a GPRS connection with an external application (using adt*99***1#), AT commands do not answer anymore until the ATH command is used.
31801	+WIND: 13 & +WIND: 0 indications are displayed after an AT+CFUN=1 when an application is running.
31199	After performing a GPRS connection with an external application, if an Open AT application uses adl_atCmdCreate on this port, responses will never be received.

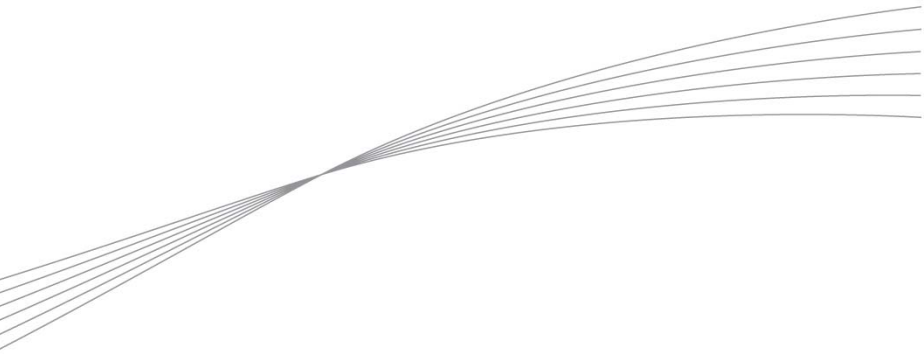
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Id	Description (What / When)
33335	Memory release error occurs in ADL AT commands process, when a huge number of incorrectly formatted AT commands are sent from an external application.
33119	When the SIM card is removed between the AT+CPIN=XXXX command and its response, the response is never received and the AT commands are frozen on the current port (no answer).
32837	When using the adl_adInfo function in RTE mode, the target resets and the RTE session is not closed properly.
32753	adl_main parameter not set to REBOOT_FROM_EXCEPTION after a Watchdog reset, or a NULL function pointer call.
32480	An application using the ADL Call service will never receive the NEW_ID event if a second call occurs when a first one is already running
32478	An Open AT application which subscribes to the call service has no way to handle the '+CIEV: 5,1' event on an outgoing call.
32059	It is not possible to filter all AT commands when FCM, Call and/or SIM services are running.
32057	Interworking problems when sending an SMS and a call is released from the remote part.
31897	User cannot use adl_atCmdSubscribe to subscribe to a command beginning by "ATA", "ATD" or "ATH" when call service is used.
31033	+CFUN=1/+WOPEN=1 command response is not received on UART2 with an enabled Open AT application
33331	With some binary files, an error occurs during the XModem Download: the download runs approximately until the end, but fails with an 'ERROR IN HEADER' message.
33298	When an application tries to read or write a large buffer from/to a bus in RTE mode, the target freezes and no longer answers to AT commands.
33001	When RTE mode is used when the module is running in CMUX mode, all ports are frozen after some time. If the RTE session is closed, the ports restart working correctly.
32751	When a reset is caused by an Open AT application, stored information in the back-traces memory uses several buffers; the retrieveBacktrace function has to be called several times to recover all information.
31974	If an application uses adl_atCmdCreate to send an "ATH" command, no hangup event is sent to the call service.
31971	With some fast SIM cards and if the PIN code is disabled, the ADL_SIM_EVENT_FULL_INIT event may be received before the ADL_SIM_EVENT_PIN_OK.
31967	When the user wants to modify the Open AT installation path, if he switches to another window (e.g. an explorer window), then the Open AT setup window does not keep the focus for more than one second.
31721	When an SMS is sent from an external application with a NULL character, the text following this character is not received by the remote part.
31023	If AT+CLCC & ATH commands are issued one just after the other, the responses will be received by the incorrect handler.
30677	When 2 timers with the same duration are successively started, the expiration of the second one is received before the first one.

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Id	Description (What / When)
29932	There is no Open AT® interface or AT command to know the current state of the ATE command
30710	On a reset due to an exception, the Open AT application should restart after a 20 seconds delay.
33541	When the Open AT SDK is installed for the first time on a computer, Start menu shortcuts do not work. Installing Open AT again solves the problem. Shortcuts can also be modified by removing the 'C:\' statement before the %WMATHOME_DOS% name.

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