# CipherLab User Guide

AG Utilities & Mobile Link

8000 / 8300 / 8500 Series Mobile Computers

DOC Version 1.00



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# **RELEASE NOTES**

Version	Date	Notes
1.00	Sep. 12, 2008	Initial release

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# INTRODUCTION

FORGE Application Generator for 8000/8300/8500 Series Mobile Computers, batch or WLAN version, is designed for the users to develop custom templates for the use with AG runtime preloaded on the mobile computers.

We also provide several utilities as alternatives when dealing with the following tasks:

- Download Application (Batch/WLAN)
- Download Lookup File (Batch only)
- Receive Data (Batch/WLAN)

Instead of direct link, we now provide new utility **Mobile Link** that allows the mobile computer to establish a connection with the host computer over network. Ethernet Cradles are required for such net link. Most of all, multiple connections are made possible and easier.

This manual serves to provide comprehensive understanding of these AG utilities. We recommend that you read the document thoroughly before use and keep it at hand for quick reference.

Thank you for choosing CipherLab products!

# Chapter 1 UTILITIES FOR BATCH APPLICATION GENERATOR

Without the need to run any Batch Application Generator programs, you can make use of the following AG utilities to handle the following tasks. Alternatively, you may use command lines in your own code.

- AG\_Load.exe : download the template file (.AGX or .ATX) to mobile computers
- DLookup.exe : download the lookup files (.TXT) to mobile computers
- Data\_Read.exe : upload the collected data (.TXT) from mobile computers to host

#### **1.1 DOWNLOAD APPLICATION**

#### 1.1.1 AG\_LOAD (.EXE) UTILITY

Use **AG\_Load.exe** to download the Batch AG template file (\*.AGX or \*.ATX) from the host computer to your mobile computer.

	Download AG v2.02	2	× I
	File Type :	AGX files	1
	File name :	Browse	2
	tor (Batch)\AG Sa	mples\8000Default.AGX	
	Download via :	RS232 or IrDA	3
	COM port :	1 (1~255)	
	Baud rate :	115200 bps 💌	
		Configure	
4	ОК	Exit	

Note: This utility AG\_Load.exe cannot be used with 8500 Series Mobile Computer. You must use the program AG8500.exe to download its template file.

File Type	Description
AGX files	The AGX format is used by the template file of Batch AG programs for 8000/8300 Series Mobile Computers:
ATF files	▶ AG8000*.exe
	► AG8300*.exe
AGX files	The ATX format is used by the template file of Batch AG program for 711 Mobile Computer:
ATF files 🧏	AG711*.exe
AGX files ATX files	The ATF format is used by the template file of WLAN AG programs for 8000/8300 Series Mobile computers.
ATF files	

I) In the **File Type** box, select the file type of the target AG template file.

2) In the **File name** box, type the file path where the AG template file is located.

Otherwise, click **Browse** to locate the AG template file you want to download. Click **Open** in the dialog box as shown below.

Open		<u>? ×</u>
Look in	n: 🦳 AG Samples 💽 🗢 🖻 📸 📰 🗸	
My Recent Documents Desktop My Documents	8000Default.AGX     Default_Chinese.AGX     Default_Simplified_Chinese.AGX	
My Computer My Network Places	File name:     8000Default.AGX       Files of type:     AGX files (*.AGX)	Open Cancel

3) In the **Download via** box, select the download interface.

Download via	Description				
RS232 or IrDA Cradle-IR MODEM	<ul> <li>RS-232 or IrDA interface is available on 711/8000/8300 Series Mobile Computers.</li> <li>Proceed to configure COM port and baud rate settings.</li> </ul>				
RS232 or IrDA Cradle-IR MODEM	Cradle-IR interface is available on 711/8000/8300 Series Mobile Computers. Cradles or IR-Transceivers are required. Proceed to configure COM port (1~255) and baud rate settings.				
RS232 or IrDA Cradle-IR MODEM	<ul> <li>Modem interface is available on 8000/8300 Series Mobile Computers Modem Cradles are required.</li> <li>Proceed to configure modem if necessary.</li> </ul>				
	File Type : ATX files				
	File name :       Browse         lication Generator\Samples\Sample.ATX				
	Download via : MODEM COM port : 1 🔆 (1~255)				
	Baud rate : 115200 bps				
	OK Exit				

Note: Mobile Link is provided for mobile computers to establish a connection with the host via Ethernet Cradles. However, it only allows uploading data currently.

4) Click **OK** to start the download process.

#### **1.1.2 COMMAND LINE CONFIGURATION**

You can use the command line to download the AG template file as well. At the command line prompt, use the following command line arguments:

AG\_Load <File name>,<COM port>,<Baud rate>,<Download via>,<File type>

For example,

AG\_Load SAMPLE.AGX,1,1,1,1

//COM 1, 115200 bps, RS-232/IrDA, AGX file

If command line arguments are not given, you may select the appropriate parameters from the dialog box that pops up. Each argument is explained in the table below.

Argument	Description				
File name	Max length: 256 bytes				
COM port	Range: 1 ~ 255 (It is set to 1 by default in the utility program.)				
Baud rate	Range: 1 ~ 5(It is set to 1 by default in the utility program.)				
	▶ 1: 115200 bps				
	2: 57600 bps				
	▶ 3: 38400 bps				
	• 4: 19200 bps				
	▶ 5: 9600 bps				
Download via	Range: 1 ~ 3(It is set to 1 by default in the utility program.)				
	▶ 1: RS-232 or IrDA				
	2: Cradle-IR				
	3: Modem				
File type	Range: 1 ~ 3(It is set to 1 by default in the utility program.)				
	▶ 1: AGX file				
	2: ATX file				
	► 3: ATF file				

## 1.2. DOWNLOAD LOOKUP FILE

## 1.2.1 DLOOKUP (.EXE) UTILITY

Use **DLookup.exe** to download a lookup file (\*.TXT) from the host computer to your mobile computer.

	Download Lookup: v2.(	02	×
	File name :	Browse	
	er Guide\Utilities\	AG Utilities\Lookup.TXT	
	Download via :	RS232 or IrDA	2
	COM port:	1 (1~255)	
	Baud rate :	115200 bps 💌	
		Configure	
3	ОК	Cancel	

I) In the File name box, type the file path where the lookup file is located.

Otherwise, click **Browse** to locate the lookup file you want to download. Click **Open** in the dialog box as shown below.

Open					? ×
Look in:	Cookup files		•	수 🗈 💣 🎟•	
My Recent Documents	<ul> <li>Lookup_1.txt</li> <li>Lookup_2.txt</li> <li>Lookup_3.txt</li> <li>Lookup_Demo</li> </ul>	.TXT			
My Documents					
My Computer					
My Network Places	, File name: Files of type:	Lookup_Demo.TXT Lookup data files {*.TXT}		•	Open Cancel

2) In the **Download via** box, select the download interface.

Download via	Description			
RS232 or IrDA Cradle-IR	RS-232 or IrDA interface is available on 711/8000/8300/8500 Series Mobile Computers.			
MODEM	Proceed to configure COM port and baud rate settings.			
RS232 or IrDA Cradle-IR	Cradle-IR interface is available on 711/8000/8300/8500 Series Mobile Computers. Cradles or IR-Transceivers are required.			
MODEM °	Proceed to configure COM port (1~255) and baud rate settings.			
RS232 or IrDA Cradle-IR	Modem interface is available on 8000/8300/8500 Series Mobile Computers. Modem Cradles are required.			
MODEM	Proceed to configure modem if necessary.			

	ownload Lookup: v2.0	)2	
	File name :	Browse	
	Utilities\Lookup fi	iles\Lookup_Demo.TXT	
	Download via :	MODEM	
	COM port :	1 (1~255)	
	Baud rate :	115200 bps 💌	
		Configure	
	ок	Cancel	
L			

Note: Mobile Link is provided for mobile computers to establish a connection with the host via Ethernet Cradles. However, it only allows uploading data currently.

3) Click **OK** to start the download process.

#### **1.2.2 COMMAND LINE CONFIGURATION**

You can use the command line to download the lookup file as well. At the command line prompt, use the following command line arguments:

DLookup <File name>, <Download via>, <COM port>, <Baud rate>, <Show message box>

For example,

DLookup DEMO\_LOOKUP.TXT,1,1,1,0

// RS-232/IrDA, COM 1, 115200 bps, No message box

If command line arguments are not given, you may select the appropriate parameters from the dialog box that pops up. Each argument is explained in the table below.

Argument	Description		
File name	Max length: 256 bytes		
Download via	Range: 1 ~ 3	(It is set to 1 by default in the utility program.)	
	▶ 1: RS-232 or IrDA	A	
	> 2: Cradle-IR		
	> 3: Modem		
COM port	Range: 1 ~ 255	(It is set to 1 by default in the utility program.)	
Baud rate	Range: 1 ~ 5	(It is set to 1 by default in the utility program.)	
	▶ 1: 115200 bps		
	> 2: 57600 bps		
	> 3: 38400 bps		
	▶ 4: 19200 bps		
	▶ 5: 9600 bps		
Show message box	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)	
	O: Disable		
	1: Enable		

## **1.3. RECEIVE DATA**

#### 1.3.1 DATA\_READ (.EXE) UTILITY

Use **Data\_Read.exe** to upload a data file (\*.TXT) from your mobile computer to the host computer. However, if you want to upload data files over the network via Ethernet Cradles, use Mobile Link instead.

Data read Ver 1.12		
File Properties		Options
1 Directory : ties\AG Utilities\Data re	eceived Browse	Add Return character to each record.
2 File name : DataFile_Demo.TXT		Add Line-Feed character to each record.
3 Save mode : Overwrite	•	Show messages in case of error.
Communication Parameters		View the received data.
5 Interface : RS232 or IrDA 💌	Modem config	Always show this dialog box.
COM port : 1	(1 ~ 255)	Keep online for receiving data automatically.
Baud rate : 115200 bps		Polling time : 2 (1 ~ 999 sec)
Inter-character delay : 2	(0 ~ 255 ms)	OK Cancel
		6

 In the Directory box under File Properties, type the file path where the data file will be saved to.

Otherwise, click **Browse** to select which directory the data file is saved to. Type the file name and click **Save** in the dialog box as shown below.



2) If you want to save another data file to the same directory as specified above, simply type the file name here.

Data read Ver 1.12	
File Properties	Options
Directory : ties\AG Utilities\Data received	Browse Add Return character to each record.
File name : DataFile_2.TXT	Add Line-Feed character to each record.
Save mode : Overwrite	Show messages in case of error.
Communication Parameters	View the received data.
Interface : RS232 or IrDA 💌 Modem	config Always show this dialog box.
COM port : 1 (1 ~ 255)	Keep online for receiving data automatically.
Baud rate : 115200 bps	Polling time : 2 (1 ~ 999 sec)
Inter-character delay : 2 👘 (0 ~ 255 m	ns) OK Cancel

- 3) In the **Save mode** box under **File Properties**, select the appropriate file mode.
- 4) Under **Options**, select appropriate settings for the file mode you selected in step 3.

Save Mode	Description	
Overwrite Append Keyboard emulation Auto file name	Overwrite: If the file name you give is the same as of an existing file, the uploaded data will overwrite the original data. Otherwise, it will create a new file.	
Auto append Name by first record	Data read Ver 1.12	
Nume by hist record	File Properties	Options
	Directory : ties\AG Utilities\Data received Browse	Add Return character to each record.
	File name : DataFile_2.TXT	Add Line-Feed character to each record.
	Save mode : Overwrite	Show messages in case of error.
	Communication Parameters	View the received data.
	Interface : RS232 or IrDA Modern config	Always show this dialog box.
	COM port : 1 (1 ~ 255)	Keep online for receiving data automatically.
	Baud rate : 115200 bps 💌	Polling time : 2 (1 ~ 999 sec)
	Inter-character delay : 2 😴 (0 ~ 255 ms)	OK Cancel
	Baud rate : 115200 bps (0 ~ 255 ms)	Polling time : 2 (1 ~ 999 sec)

Sava Mada	Description	
Overwrite Append Keyboard emulation	Append: If the file name you give is the uploaded data will be appended to the create a new file.	e same as of an existing file, the e original data. Otherwise, it will
Auto file name Auto append Name by first record	Data read Ver 1.12         File Properties         Directory :       ties\AG Utilities\Data received         Browse         File name :       DataFile_2.TXT         Save mode :       Append         Communication Parameters         Interface :       RS232 or IrDA ▼         Modem.config         COM port :       1         1       (1 ~ 255)         Baud rate :       115200 bps ▼         Intercharacter delay:       2         (0 ~ 255 ms)	Options     Add Retum character to each record.     Add Line-Feed character to each record.     Show messages in case of error.     View the received data.     Always show this dialog box.     Keep online for receiving data automatically.     Polling time :     2
Overwrite Append Keyboard emulation Auto file name Auto append Name by first record	<ul> <li>Keyboard emulation: Data is emulated active window.</li> <li>In the Inter-character delay Parameters, type or select a varesponse time of the keyboard interbetween every character being tratime is, the slower the transmission</li> </ul>	d as typed text and sent to the box under <b>Communication</b> lue that matches the computer rface. Such delay time is inserted ansmitted. The longer the delay p speed will be.
	Data read Ver 1.12         File Properties         Directory :       ites\AG Utilities\Data received         Browse         File name :       DataFile_2.TXT         Save mode :       Keyboard emulation         Communication Parameters         Interface :       RS232 or IrDA ▼         Modem config         COM port :       1         Image: 115200 bps       1         Intercharacter delay :       2         (0 ~ 255 ms)       1	Options Add Retum character to each record. Add Line-Feed character to each record. Show messages in case of error. View the received data. Always show this dialog box. Keep online for receiving data automatically. Polling time : 2 (1 ~ 999 sec) OK Cancel

Save Mode	Description		
Overwrite Append Keyboard emulation Auto file name Auto append Name by first record	<ul> <li>Description</li> <li>Auto file name: The uploaded data will be saved to the specified directory with a file name that is automatically generated based on the system date and time.</li> <li>The best practice requires specifying reasonable polling time with Keep online for receiving data automatically enabled.</li> </ul>		
	■ Data read Ver 1.12         File Properties         Directory :       ties\AG Utilities\Data received         Browse         File name :       DataFile_2.TXT         Save mode :       Auto file name         Communication Parameters       Interface :         Interface :       RS232 or IrDA ▼       Modem config         COM port :       1       ∴       (1 ~ 255)         Baud rate :       115200 bps ▼       Inter-character delay:       2       ✓       (0 ~ 255 ms)	Options     Add Retum character to each record.     Add Line-Feed character to each record.     Show messages in case of error.     View the received data.     Always show this dialog box.     Keep online for receiving data automatically.     Polling time : 2	
Overwrite Append Keyboard emulation Auto file name Auto append Name by first record	Auto append: If the file name you give the uploaded data will be appended to will create a new file. The best practice requires specify	is the same as of an existing file, o the original data. Otherwise, it ing reasonable polling time with	
	Reep online for receiving data a		
	Browse         File Properties         Directory :       ties\AG Utilities\Data received         Browse         File name :       DataFile_2.TXT         Save mode :       Auto append         Communication Parameters         Interface :       RS232 or IrDA I Modem config         COM port :       1         Image: 115200 bps       Intercharacter delay:         2       (0 ~ 255 ms)	Options  Add Retum character to each record.  Add Line-Feed character to each record.  Show messages in case of error.  View the received data.  Always show this dialog box.  Keep online for receiving data automatically. Polling time : 2 (1 ~ 999 sec)  OK Cancel	

Overwrite Append Kevboard emulation	Name by the first record: The receiven named by its first record.	ved data will be saved to a file
Auto file name Auto append Name by first record	For example, in Batch Application of to allow only one line for a specifi forms for collecting data. Thus, the its file name. However, if the file an existing file, the uploaded data	Generator you may design Form 1 ic file name and proceed to other e first record will be used to keep name you give is the same as of will overwrite the original data.
	Data read Ver 1.12	
	- File Properties	- Options
	Directory : ties\AG Utilities\Data received Browse	Add Return character to each record.
	File name : DataFile_2.TXT	Add Line-Feed character to each record.
	Save mode : Name by first record	Show messages in case of error.
	Communication Parameters	View the received data.
	Interface : RS232 or IrDA 💌 Modem config	Always show this dialog box.
	COM port : 1 (1~255)	Keep online for receiving data automatically.
	Baud rate : 115200 bps	Polling time : 2 💽 (1 ~ 999 sec)
	Inter-character delay : 2 👘 (0 ~ 255 ms)	OK Cancel

5) In the Interface box under Communication Parameters, select the upload interface.

Interface	Description
RS232 or IrDA Cradle-IR Modem - TAPI Modem - COM	<ul> <li>RS-232 or IrDA interface is available on 711/8000/8300/8500 Series Mobile Computers.</li> <li>Proceed to configure COM port and baud rate settings.</li> </ul>
RS232 or IrDA Cradle-IR Modem - TAPI Modem - COM	<ul> <li>Cradle-IR interface is available on 711/8000/8300/8500 Series Mobile Computers. Cradles or IR-Transceivers are required.</li> <li>Proceed to configure COM port (1~255) and baud rate settings.</li> </ul>
RS232 or IrDA Cradle-IR Modem - TAPI Modem - COM	<ul> <li>Modem interface is available on 8000/8300/8500 Series Mobile Computers. Modem Cradles are required.</li> <li>Select Modem-TAPI when using TAPI-compliant communication application on the host computer. Proceed to configure modem if necessary.</li> <li>Communication Parameters         <ul> <li>Interface : Modem - TAPI Modem configure</li> <li>Modem - TAPI (1 ~ 255)</li> <li>Baud rate : 115200 bps</li> <li>Inter-character delay : 2 : (0 ~ 255 ms)</li> </ul> </li> </ul>

RS232 or IrDA Cradle-IR Modem - TAPI Modem - COM	<ul> <li>Modem interface is available on 8000/8300/8500 Series Mobile Computers. Modem Cradles are required.</li> <li>Select Modem-COM when using COM port based modem, and proceed to configure COM port and baud rate settings.</li> </ul>
	Communication Parameters       Modem config         Interface :       Modem - COM       Modem config         COM port :       1       ::       (1 ~ 255)         Baud rate :       115200 bps       Inter-character delay :       2       ::         Inter-character delay :       2       ::       (0 ~ 255 ms)

Note: Mobile Link is provided for mobile computers to establish a connection with the host via Ethernet Cradles. However, it only allows uploading data currently.

6) Click **OK** to start the upload process.

#### **1.3.2 COMMAND LINE CONFIGURATION**

You can use the command line to download the lookup file as well. At the command line prompt, use the following command line arguments:

Data\_Read <File name>,<Upload via>,<COM Port>,<Baud rate>,<Save mode>,

<Add CR character>,<Add LF character>,<Show error>,<Show data>,

<Show dialog box>,<Keep online>,<Polling time>,<Inter-Char delay>

For example,

Data\_Read DataFile\_1.TXT,1,1,1,1,1,1,1,1,0,1,2,0

// RS-232/IrDA, COM 1, 115200 bps, Overwrite, Add CR, Add LF, Show error message, Show data, Hide dialog box, Keep online, Polling time 2 seconds, No Inter-Char delay

If command line arguments are not given, you may select the appropriate parameters from the dialog box that pops up. Each argument is explained in the table below.

Argument	Description
File name	Max length: 256 bytes
Upload via	Range: 1 ~ 4(It is set to 1 by default in the utility program.)
	▶ 1 (R) : RS-232 or IrDA
	2 (I) : Cradle-IR
	3 (T) : Modem-TAPI
	▶ 4 (M) : Modem-COM
COM port	Range: 1 ~ 255(It is set to 1 by default in the utility program.)
Baud rate	Range: 1 ~ 5(It is set to 1 by default in the utility program.)
	▶ 1 (115200) : 115200 bps
	▶ 2 (57600) : 57600 bps
	> 3 (38400) : 38400 bps
	▶ 4 (19200) : 19200 bps
	▶ 5 ( 9600) : 9600 bps
Save mode	Range: 1 ~ 5(It is set to 1 by default in the utility program.)
	1: Overwrite
	> 2: Append
	3: Keyboard emulation
	4: Auto file name
	5: Auto append

Add CR character	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
	0: Disable	
	1: Enable	
Add LF character	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
	• 0: Disable	
	1: Enable	
Show error	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
	• 0: Disable	
	1: Enable	
Show data	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
	0: Disable	
	1: Enable	
Show dialog box	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
	• 0: Disable	
	1: Enable	
Keep online	Range: 0 ~ 1	(It is set to 0 by default in the utility program.)
	0: Disable	
	1: Enable	
Polling time	Range: 1 ~ 999 sec	(It is set to 2 by default in the utility program.)
Inter-Char delay	Range: 0 ~ 255 ms	(It is set to 2 by default in the utility program.)

# Chapter 2 UTILITIES FOR WLAN APPLICATION GENERATOR

Without the need to run any WLAN Application Generator or Wireless Database Manager programs, you can make use of the following AG utilities to handle the following tasks. Alternatively, you may use command lines in your own code.

- AG\_Load.exe : download the template file (.ATF) to mobile computers
- WLAN\_Read.exe : send any collected data from mobile computers to host

#### 2.1 DOWNLOAD APPLICATION

Refer to 1.1 Download Application for details.

#### 2.1.1 AG\_LOAD (.EXE) UTILITY

Use **AG\_Load.exe** to download the WLAN AG template file (\*.ATF) from the host computer to your mobile computer.

	Download AG v2.02		×
	File Type :	ATF files	
	File name :	nplates\8300WLAN.ATF	
	Download via : COM port :	RS232 or IrDA 1  (1~255)	3
	Baud rate :	115200 bps 💌	
		Configure	
4	ОК	Exit	

Note: This utility AG\_Load.exe cannot be used with 8500 Series Mobile Computer. You must use the program AG8500WLAN.exe to download its template file.

File Type	Description
AGX files ATX files ATF files	The AGX format is used by the template file of Batch AG programs for 8000/8300 Series Mobile Computers:
AGX files ATX files ATF files	The ATX format is used by the template file of Batch AG program for 711 Mobile Computer:
AGX files ATX files	The ATF format is used by the template file of WLAN AG programs for 8000/8300 Series Mobile computers.
ATF files	AG8061RF.exe
	AG8071RF.exe
	► AG83x0WLAN.exe

I) In the File Type box, select the file type of the target WLAN AG template file.

2) In the **File name** box, type the file path where the WLAN AG template file is located.

Otherwise, click **Browse** to locate the WLAN AG template file you want to download. Click **Open** in the dialog box as shown below.

Open						<u>? ×</u>
	Look in:	G templates		•	+ 🗈 💣 🎟	-
My Rei Docum	cent ents	8300WLAN.AT	F			
Deski My Docu	top Juments					
My Com	puter					
My Net Place	york es	File name: Files of type:	8300WLAN.ATF		<b>•</b>	Open Cancel

3) In the **Download via** box, select the download interface.

Download via	Description				
RS232 or IrDA Cradle-IR MODEM	RS-232 or IrDA interface is available on 8000/8300 Series Mobile Computers.				
RS232 or IrDA Cradle-IR MODEM	<ul> <li>Cradle-IR interface is available on 8000/8300 Series Mobile Computers.</li> <li>Cradles or IR-Transceivers are required.</li> <li>Proceed to configure COM port (1~255) and baud rate settings.</li> </ul>				
RS232 or IrDA Cradle-IR MODEM	Modem interface is available on 8000/8300 Series Mobile Computers Modem Cradles are required. Proceed to configure modem if necessary. Download AG v2.02				
	File Type :  ATF files    File name :  Browse				
	G Utilities\AG templates\8300WLAN.ATF				
	COM port : 1 : (1~255) Baud rate : 115200 bps				
	Configure				
	OK Exit				

4) Click **OK** to start the download process.

#### **2.1.2 COMMAND LINE CONFIGURATION**

You can use the command line to download the WLAN AG template file as well. At the command line prompt, use the following command line arguments:

AG\_Load <File name>,<COM port>,<Baud rate>,<Download via>,<File type>

For example,

AG\_Load SAMPLE.ATF,1,1,1,3

//COM 1, 115200 bps, RS-232/IrDA, ATF file

If command line arguments are not given, you may select the appropriate parameters from the dialog box that pops up. Each argument is explained in the table below.

Argument	Description
File name	Max length: 256 bytes
COM port	Range: 1 ~ 255 (It is set to 1 by default in the utility program.)
Baud rate	Range: 1 ~ 5(It is set to 1 by default in the utility program.)
	▶ 1: 115200 bps
	2: 57600 bps
	▶ 3: 38400 bps
	▶ 4: 19200 bps
	▶ 5: 9600 bps
Download via	Range: 1 ~ 3(It is set to 1 by default in the utility program.)
	• 1: RS-232 or IrDA
	2: Cradle-IR
	3: Modem
File type	Range: 1 ~ 3(It is set to 1 by default in the utility program.)
	▶ 1: AGX file
	2: ATX file
	► 3: ATF file

## 2.2 REAL-TIME RECEIVE DATA

## 2.2.1 WLAN\_READ (.EXE) UTILITY

If no lookup file is in use, you can use **WLAN\_Read.exe** to send any collected data from your mobile computer to the host computer in a real-time way.

Wireless LAN Reading (v1.02)					
1	Local port : 3000				
2	Supported clients (1~512) : 5				
3	Directory : lities\AG Utilities\Data received Browse				
4	File name : DataFile_Demo.TXT				
5	File mode : Overwrite				
6	Add Return character to each record.				
	Add Line-Feed character to each record.				
	Show messages in case of error.				
	View the received data.				
	Always show this dialog box.				
	Character replacement (ASCII) : 44 ==> 59				
	Add Date & Time stamp >> 7				
8	Start Reset About				

- I) In the Local port box, type the local port you want to use.
- 2) In the **Supported clients** box, type the maximum number (1 ~ 512) of client devices that are allowed to connect to the local port.
- 3) In the **Directory** box, type the file path where the data will be saved to.

Otherwise, click **Browse** to select which directory the data file is saved to. Type the file name and click **Save** in the dialog box as shown below.

Save As			<u>? ×</u>
	Save in:	: 🗁 Data received 🔽 🔶 📸 🖬 🕇	
My Re Docur Desi My Doc My Cor My Cor My Ne Plac	ecent ments ktop cuments	DataFile_Demo.TXT	
	etwork ces	File name:     Data File_2       Save as type:     Data Files (*.TXT)	Save Cancel
		Wii AN Reading (v1.02)	
		Local port :     3000       Supported clients (1~512) :     5	
		Directory : lities\AG Utilities\Data received Browse File name : DataFile_2.TXT	

4) If you want to save data to another file under the same directory as specified above, simply type the file name here.

Wireless LAN Re	/ireless LAN Reading (v1.02)					
Local port :		3000				
Supported of	lients (1~512) :	5				
Directory :	lities\AG Utilities\	Data received	Browse			
File name :	DataFile_3 TXT					
File mode :	Overwrite	•				

- 5) In the **File mode** box, select the appropriate file mode.
- 6) Under the **File mode** box are options associated with the file mode. Select appropriate settings for the file mode you selected in step 5.

File Mode	Description		
Overwrite Append New name Named by the first record	Overwrite: If the file name you give is the same as of an existing file, the received data will overwrite the original data. Otherwise, it will create a new file.		
Overwrite Append New name Named by the first record	Append: If the file name you give is the same as of an existing file, the received data will be appended to the original data. Otherwise, it will create a new file.		
Overwrite Append New name Named by the first record	New name: If the file name you give is the same as of an existing file, it will fail to create file. Otherwise, it will create a new file.		
Overwrite Append New name	Name by the first record: The received data will be saved to a file named by its first record.		
Named by the first record 🔉 🔪	For example, in WLAN Application Generator you may design Form 1 to allow only one line for a specific file name and proceed to other forms for collecting data. Thus, the first record will be used to keep its file name. However, if the file name you give is the same as of an existing file, the uploaded data will overwrite the original data.		

7) Click to view more options associated with the Date & Time stamp.

Wireless LAN Reading (v1.02)				
Local port : 3000	Date & Time stamp : Added to record's top 💌			
Supported clients (1~512): 5	Data field delimiter : Comma (,)			
	Separate DATE stamp and TIME stamp.			
Directory : lities\AG Utilities\Data received Browse	Date Format : YYYY/MM/DD			
File name : DataFile_3.TXT	Vear 4 Digits (YYYY) 💌			
File mode : Overwrite	Month			
Add Beturn character to each record	🔽 Day			
Add Line-Feed character to each record.	Separator /			
Show messages in case of error.	Date Style : Year.Month.Day 💌			
Time Format : HH:MM:SS				
Always show this dialog box.	🔽 Hour			
Character replacement (ASCII): 44 ==> 59 Minute				
Add Date & Time stamp << 📐				
Start Reset About				

8) Click Start to receive data immediately.

#### **2.2.2 COMMAND LINE CONFIGURATION**

You can use the command line to download the lookup file as well. At the command line prompt, use the following command line arguments:

Wlan\_Read <File name>,<File mode>,<Add CR character>,<Add LF character>,

<Show error>,<Show data>,<Show dialog box>,<Replace delimiter>,

<Character\_1>,<Character\_2>,<Add Date & Time stamp>,<Stamp position>,

<Separate Date & Time stamp>,<Field delimiter>,<Year>,<Year format>,

<Month>,<Day>,<Separate Date>,<Date separator>,<Date style>,

<Hour>,<Minute>,<Second>,<Separate Time>,<Time separator>,

<Local port>,<Supported client number>

If command line arguments are not given, you may select the appropriate parameters from the dialog box that pops up. Each argument is explained in the table below.

Argument	Description	
File name	Max length: 256 bytes	
File mode	Range: 1 ~ 4	(It is set to 1 by default in the utility program.)
	1: Overwrite	
	> 2: Append	
	3: New name	
	• 4: Name by the f	irst record
Add CR character	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
	• 0: Disable	
	1: Enable	
Add LF character	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
	• 0: Disable	
	1: Enable	
Show error	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
	0: Disable	
	1: Enable	
Show data	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
	0: Disable	
	1: Enable	

Show dialog box	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
	0: Disable	
	1: Enable	
Replace delimiter	Range: 0 ~ 1	(It is set to 0 by default in the utility program.)
	0: Disable	
	1: Enable	
Character_1	One ASCII character for the original delimiter	(It is set to 44 (comma) by default in the utility program.)
Character_2	One ASCII character for the new delimiter	(It is set to 59 (semicolon) by default in the utility program.)
Add Date & Time stamp	Range: 0 ~ 1	(It is set to 0 by default in the utility program.)
	0: Disable	
	1: Enable	
Stamp position	Range: 0 ~ 1	(It is set to 0 by default in the utility program.)
	• 0: Тор	
	▶ 1: Bottom	
Separate Date & Time	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
stamp	0: Disable	
	1: Enable	
Field delimiter	Range: 0 ~ 4	(It is set to 0 by default in the utility program.)
	▶ 0: Comma	(,)
	1: Colon	(:)
	2: Semicolon	(;)
	3: Slash	(/)
	4: Backslash	(\)
Year – add info	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
	0: Disable	
	1: Enable	
Year format	Range: 0 ~ 1	(It is set to 0 by default in the utility program.)
	O: 4 digits (YYYY)	)
	<ul><li>1: 2 digits (YY)</li></ul>	
Month – add info	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
	O: Disable	
	▶ 1: Enable	
Day – add info	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
	• 0: Disable	
	1: Enable	

Date – add separator	Range: 0 ~ 1 • 0: Disable	(It is set to 1 by default in the utility program.)
	▶ 1: Enable	
Date separator	One character	(It is set to slash (/) by default in the utility program.)
Date style	Range: 0 ~ 2	(It is set to 0 by default in the utility program.)
	• 0: Year.Month.Da	ау
	1: Month.Day.Yea	ar
	> 2: Day.Month.Yea	ar
Hour – add info	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
	• 0: Disable	
	1: Enable	
Minute – add info	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
	0: Disable	
	1: Enable	
Second – add info	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
	• 0: Disable	
	1: Enable	
Time – add separator	Range: 0 ~ 1	(It is set to 1 by default in the utility program.)
	• 0: Disable	
	1: Enable	
Time separator	One character	(It is set to colon (:) by default in the utility program.)
Local port	Range: 1 ~ 65535	(It is set to 3000 by default in the utility program.)
Supported client number	Range: 1 ~ 512	(It is set to 5 by default in the utility program.)

# Chapter 3

# MOBILE LINK

**Mobile Link** is provided for mobile computers to establish a connection with the host via Ethernet Cradles, and it only allows uploading data currently.

### **3.1 LOOKING AT THE WORK AREA**

#### **3.1.1 PREREQUISITES**

- You must have configured your Ethernet Cradle to work in Data Mode and connect to the host computer with correct host IP and port number.
- > You must select "Ethernet" for the upload interface on the mobile computer.

By default, it is set to automatically start the link service upon execution of **Mobile Link**. Once you select to upload data from the mobile computer, you can view the link status and file status respectively as shown below.

Note: On the System menu, click Link Properties, and then change the Auto Start Link Service setting.



## 3.1.2 MENU BAR & TOOLBAR BUTTONS

File Menu		
Open		Open a selected data file.
Save As		Save a selected data file to a different file path.
Rename	Z	Rename a selected data file.
Delete File	×	Delete a selected data file.
Remove from List		Remove a selected data file from the file list.
Convert		Convert a selected data file to Excel file format.
Exit	⇔	Close the Mobile Link program.
Link Menu		
Start		Start the link service.
Restart		Re-start the link service.
Stop		Stop the link service.
Information Menu		
Device Information	-	Get system information about a specific mobile computer.
System Menu		
Link Properties		Configure link properties.
File Properties	1	Configure file properties.
Help Menu		
About Mobile Link	<b>2</b>	View information about the Mobile Link program.

### **3.2 RECEIVING DATA OVER THE NETWORK**

#### **3.2.1 VIEW LINK STATUS**

I) Connect your Ethernet Cradle to the host computer over the network.

In **Mobile Link**, click **Links** on the left pane of the work area and the IP address of Ethernet Cradle will be displayed on the right pane.



Note: You must have configured your Ethernet Cradle to connect to the host computer with correct host IP and port number.

2) Seat the mobile computer into your Ethernet Cradle, and start with uploading data.

In **Mobile Link**, more information about the connection will be displayed on the right pane. The connection details include:

- Ethernet Cradle IP
- Serial Number (of the mobile computer)
- Device Type (of the mobile computer)
- Connect Time (start time)
- Elapse (time elapsed upon completion of receiving data)

🕎 Mobile Link				_ 🗆 🗙
File Link Information System Help				
	) 🗷 🎚 📚 🏂 😭	<b>₽ ₽</b>		
🖃 🔮 Mobile Link	Ethernet Cradle Serial Number	Device Type Connect Time	Elapse	
Files	192.168.6.126 ALPHA-00001	8300-0 2008/09/03 13:58:55	00:00:14	
Ready			1	

Note: You must select "Ethernet" for the upload interface on the mobile computer.

3) Except for "Ethernet Cradle IP", the rest information will be cleared upon completion of uploading data.

🖳 Mobile Link	
File Link Information System Help	
• • • • • • • • • • • • • • • • • • •	
Ethernet Cradle Serial Number Device Type Connect Time Elapse	
192. 168.6. 126	
Ready	

#### **3.2.2 VIEW RECEIVED FILES**

I) In **Mobile Link**, click **Files** on the left pane of the work area and the received file or files will be displayed on the right pane.



Note: You must have configured your Ethernet Cradle to connect to the host computer with correct host IP and port number.

- 2) Click a file from the file list, and choose a command from the **File** menu:
  - On the **File** menu, click **Open** to open the selected data file.

🕎 Mobile Link				
File Link Information	System Help			
Open	I 🔚 📝	n 😼 🏣 🗟 🖉		
Save As	<u> </u>	<u> </u>		
		File Name	File Path	Update Time
Rename		20080903135855.txt	F: Mobile Link Received Data	2008/09/03 13:58:55
Delete File				
Remove from List				
Convert				
Exit(X)				
		,		

On the File menu, click Save As to save the selected data file to a different file path.

🕎 Mobile Link						×
File Link Information	System Help					
Open	- 🕞 📝	h 😼 🏣 🗟	. 🕗 🚱 📖	$\odot$		
Save As	<u>va &lt;</u>	<u> </u>	🏊 🛄   🖑			
		File Name	File Path		Update Time	
Rename		20080903135855.txt	F: Mobile Link Recei	ved Data	2008/09/03 13:58:55	
Delete File						
Remove from List						
Convert						
Exit(X)						
-		·			NUM	1.

> On the File menu, click Rename to rename the selected data file.

🦉 Mobile Link		_ 🗆 🗵
File Link Information System Help		
Open	) 🗙 🌐 🏝 😭 🏫 📠 😨 😝	
Save As		Undete True
Rename	20080903135855.txt F: Wobile Link Received Data	2008/09/03 13:58:55
Delete File		
Remove from List		
Convert		
Exit(X)		
	,	
Eile Link Information System Help		
] Ւ 💻 🖊 🐫 差	) 🛎 👼 📚 🛸 🔛 🛸	
	File Name File Path	Update Time
	20080903135855.txt F:\Mobile Link Received Data	2008/09/03 13:58:55
e ries		
Ready	,	

> On the File menu, click Delete File to delete the selected data file.



• On the **File** menu, click **Remove from List** to remove the selected data file from the file list.

🕎 Mobile Link		
File Link Information System Help		
Open	🕱 拱 🛬 😭 🐏 🥾 😁	
Save As	File Name File Path	Update Time
Rename	20080903135855.txt F: Wobile Link Received Data	2008/09/03 13:58:55
Delete File		
Remove from List		
Convert		
Exit(X)		
		NUM //
Mobile Link		<u>-</u> □×
🕨 🔳 🌽 🗾	🗴 📑 📚 😭 🌆 😰 😁	
🖂 🍨 Mobile Link	File Name File Path	Update Time
	20080903135855.txt F:\Mobile Link Received Data	2008/09/03 13:58:55
- Files	Mobile Link	
	Are you sure that you want to remove the selected items from the file list?	
	4	
	OK Cancel	
Ready		NUM //

On the File menu, click Convert to convert the selected data file to Excel file format.



File Convert		×
Source Text File		
Source File : F:\Mobile Link Received Data\20	080903135855.txt	Browse
Field Limitation :	Field Length :	
Oelimiter	#1 1 #5 1	
C Fixed Length 1 🚎 fields.	#2 1 #6 1	
Skip first line while transforming file	#3 1 #7 1	
	#4 1 #8 1	
Target XLS File		
Target File : F:\Mobile Link Received Data\20	1080903135855.xls	Browse
1		
OK	Cancel	
- OK		

#### **3.2.3 VIEW DEVICE INFORMATION**

In **Mobile Link**, you can also view the device information while a mobile computer is uploading data.

- I) Click an entry from the link list that provides detailed information on each of the current connections.
- 2) On the **Information** menu, click **Device Information** to view system information of a specific mobile computer, such as:
  - Serial Number (on the title of the dialog box)
  - Manufacture Date
  - Library Version
  - Kernel Version
  - Font Version
  - Program Version
  - Device Type

🕎 Mobile Link						
File Link Information System Help						
Device Information	) 📓 🛃 💺 🔮	👌 🚷 📕	ୁତ୍ତ	<b>&gt;</b>		
E. 9 Mobile Link	Ethernet Cradle Serial Nu	umber Devi	ice Type 🛛 (	Connect Time	Elapse	
	192.168.6.126 ALPHA-0	00001 830	0-0	2008/09/03 14:28:07	00:00:14	
		_ <u> </u>				
	<b>Device Information</b>	SN:RD70001	01 (8300	-4) 🗵		
	Manufacture Date :	2007052	2			
	Library Version :	8300L-4.	.02			
	Kennel Manian i	00004.0	20			
	Nemel version :	03001-3	.50			
	Fast Vasian i	Foot TC.				
	Font version :	TONETO	0000 03.20	·		
	Program Varrian :	AG8300-	3 05 0			
	Program version .	/ 00000	0.00.0			
	Device Type :	4800				
	551155 ()po .					
		OK				
			-			
_						

#### **3.2.4 CHANGE CONNECTION SETTINGS**

You must have configured your Ethernet Cradle to connect to the host computer with correct host IP and port number. On the **System** menu, click **Link Properties** to change the following settings:

🕎 Mobile Link				
File Link Information System	Help			
	operties 💦 📑 📚 😭 🎩			
🖃 🧐 Mobile Link	Ethernet Cradle Serial Number Device	Type Connect Time	Elapse	
Files	192.168.6.126			
				NUM //
	Link Deposition		X	1
	Link Propercies		<u> </u>	
	Link Port :			
	Max Links : 25			
	Refresh Link information every	10 🔹	seconds.	
	Attempt to resume connection when disconnection is detected	3 +	times.	
	Auto Start Link Service			
	ОК	Cancel		

- Link Port: The port number is "2000" by default. You may change it in **Mobile Link**, as well as on your Ethernet Cradle.
- Maximum Links: It allows up to 25 mobile computers to upload data by default. You may change the number to meet your needs.
- Refresh Link Information: Type or select an appropriate period of time for Mobile Link to refresh the link status, in units of second.
- Attempt to resume connection when disconnection is detected: Type or select how many times **Mobile Link** will try to resume connection.
- Auto Start Link Service: By default, it is set to automatically start the link service upon execution of **Mobile Link**. You may disable it if necessary.

#### **3.2.5 CHANGE DATA FILE SETTINGS**

On the System menu, click File Properties to change the following settings:

File         Link         Properties         Pile	🕎 Mobile Link			<u>_                                    </u>
Link Properties         Link Properis Properis Properties         Link Properties	File Link Information System	n Help		
Mobile Link         File Path         Update Time           Links         2008/09/3144817.txt         F:\Mobile Link Received Data         2008/09/03 14:48:17           2008/09/31450.21.txt         F:\Mobile Link Received Data         2008/09/03 14:48:17           2008/09/31450.21.txt         F:\Mobile Link Received Data         2008/09/04 11:50:21           2008/09/31450.21.txt         F:\Mobile Link Received Data         2008/09/04 11:22:47           20080904113247.txt         F:\Mobile Link Received Data         2008/09/04 11:32:47           20080905131952.txt         F:\Mobile Link Received Data         2008/09/05 13:95:52           20080905132009.txt         F:\Mobile Link Received Data         2008/09/05 13:20:09		Properties		
Links         20080903144817.btt         F:\Mobile Link Received Data         2008/09/03 14450:21           2008090314502.0tk         F:\Mobile Link Received Data         2008/09/03 14450:21           20080904111707.bt         F:\Mobile Link Received Data         2008/09/04 11:52:47           20080905131952.bt         F:\Mobile Link Received Data         2008/09/04 11:32:47           20080905131952.bt         F:\Mobile Link Received Data         2008/09/05 13:19:52           20080905132009.bt         F:\Mobile Link Received Data         2008/09/05 13:20:09           20080905132175.tt         F:\Mobile Link Received Data         2008/09/05 13:20:09           20080905132009.bt         F:\Mobile Link Received Data         2008/09/05 13:20:09	🖃 🖓 Mobile Link	File Path	Update Time	▲
Image: Constraint of the second sec		20080903144817.txt F:\Mobile Link Received Data	2008/09/03 14:48:17	
20080904113247.txt         F:\Wobile Link Received Data         2008/09/04 11:32:47           20080905131952.txt         F:\Wobile Link Received Data         2008/09/05 13:19:52           20080905132009.txt         F:\Wobile Link Received Data         2008/09/05 13:20:09           20080905132128.tvt         F:\Wobile Link Received Data         2008/09/05 13:20:09           20080905132128.tvt         F:\Wobile Link Received Data         2008/09/05 13:20:09		20080904111707.txt F:\Mobile Link Received Data	2008/09/04 11:17:07	
20080905131952.txt         F1;\mobile Link Received Data         2008/09/05 13:1952           20080905132009.txt         F1;\mobile Link Received Data         2008/09/05 13:20:09           20080905132128.txt         F1:\mobile Link Received Data         2008/09/05 13:20:09		20080904113247.txt F: Mobile Link Received Data	2008/09/04 11:32:47	
20080905132128 tvt E-\Mnhile Link Received Data 2008/09/05 13:21:28		20080905131952.txt F: Mobile Link Received Data 20080905132009.txt F: Mobile Link Received Data	2008/09/05 13:19:52 2008/09/05 13:20:09	
NUM	J	20080905132128 tvt E-\Mobile Link Received Data	2008/09/05 13:21:28	
File Properties		File Properties	×	
File Path :		File Path :		
F: Mobile Link Received Data Browse		F: Mobile Link Received Data	Browse	
File Name :		File Name :		
Auto File Name		Auto File Name		
<ul> <li>Date &amp; Time (yyyymmddhhmmss.txt)</li> </ul>		<ul> <li>Date &amp; Time (yyyymmddhhmmss.txt)</li> </ul>		
C Device Serial Number		C Device Serial Number		
Cilliser Specify		C Liser Specify		
s osci opcary				
Save Mode :		Save Mode :		
<ul> <li>Overwrite</li> </ul>		Overwrite		
C Annend		C Append		
		e oppend		
Add Return character to each record.		Add Return character to each record.		
Add Line-Feed character to each record		Add Line-Feed character to each record		
		is had and read and deter to each record.		
OK Cancel		OK Cancel		

- File Path: By default, the received data files will be saved in the same folder where the Mobile Link program is saved. Type the file path where the data files will be saved.
- File Name:
  - I. Auto File Name Date & Time

By default, each data file will be saved by automatically giving it a name based on the date and time it is received. The file name will be "yyyymmddhhmmss.txt", where you have 4 digits for year (yyyy), followed by 2 digits for month (mm), followed by 2 digits for day (dd), followed by 2 digits for hour (hh), followed by 2 digits for minute (mm), and finally, 2 digits for second (ss).

2. Auto File Name — Device Serial Number

You may change it to save file by the serial number of the mobile computer. However, if you keep uploading data from the same mobile computer, the original file will be overwritten by a later copy, which may contain different data.

3. User Specify

In the **User Specify** box, type the file name you want to use.

- Save Mode
  - I. Overwrite

If the file name is the same as of an existing file, the uploaded data will overwrite the original data. Otherwise, it will create a new file.

2. Append

If the file name is the same as of an existing file, the uploaded data will be appended to the original data. Otherwise, it will create a new file.

- By default, it will add Return character to each record. However, you may change it if necessary.
- By default, it will add Line-Feed character to each record. However, you may change it if necessary.