

## WinRPI Version 2.26 Release Notes

WinRPI Ver 2.00 Beta or later is a windows comm driver shell which allow the comm applications to run the ATi/ATF modems, which have the RPI or the RPI+ firmware, as error correction modems (similar to that of ACi/ACF modem) without modifications to the applications. Note, the WinRPI Ver 1.XX has the same functionalities, except it will only work with RPI+ firmware.

This document describes:

- 1) the WinRPI installation procedure
- 2) the required initialization string
- 3) the procedure for running WinRPI over other third party comm drivers
- 4) notes on running WinRPI 2.XX on RPI and RPI+ modems
- 5) the known bugs
- 6) bug fixes

### 1) Installation:

Run the setup program from the distribution disk. The setup program will perform the following tasks:

- A. Setup will copy the following three files from the disk to the Windows' system directory:
- WRPI.DRV (2.26) ; The comm shell that routes windows' comm calls
  - WRPI.DLL (1.12) ; The V42 engine.
  - WRPICOM.DRV (1.05) ; The comm driver that talks with the UART.

Setup will also copy the following file to the Windows' directory.

- WRPI.INI ; The INI file is used to configure WinRPI to work with ; the regular RPI. This file is not required if the user ; is using ; RPI+ modem .
- WRPIEN.EXE ; An applet (WinRPI Enhancer) which allows the user to ; modify the WinRPI.INI

Note, the time stamps on the WRPI.DRV, WRPI.DLL and WRPICOM.DRV correspond to the version number of the files.

B. Setup will prompt the user to see whether it should change comm.drv in the SYSTEM.INI to the following :

- COMM.DRV = WRPI.DRV

If the user choose not to have the above line changed by the setup then the user needs to change the line manually later.

C. Setup will created a program group an icon for the WinRPI Enhancer (WRPIEN.)

### 2) Initialization string :

The following AT commands should be issued before calling or answering:

For RPI+ modem:

```
AT&C1&D2&K3+H11
```

For RPI modem:

```
AT&C1&D2&K3+H3S95=1
```

The user can determine whether the modem is a RPI or RPI+ modem by issuing an ATi3 to the modem.

A RPI modem will have the following string in its response:

```
ROCKWELL RPI (TM) MODEM
```

A RPI + modem will have the following response:

```
ROCKWELL RPI (TM) MODEM+
```

The following AT commands should be issued after a ATi 1.624 (or a later version) EPROM is plugged into the modem for the very first time. It sets the NVRAM to the current factory default.

*AT&F&W&W1*

### 3) Using other third party comm drivers:

WRPICOM.DRV is the comm driver that WRPI.DRV and WRPI.DLL use to interface with the UART. Currently, the WDAPICOM.DRV is the Rockwell RHSI Ver 1.05 with its file and modules names changed. The DOS utility "chgcomm.exe" provided with this release can convert any replacement comm driver into WRPICOM.DRV. The following is the procedure for converting:

1. Copy the comm driver to WRPICOM.DRV
2. Run the chgcomm.exe with the following two parameters: "WRPICOM.DRV" and "ORG\_COM". Chgcomm changes the module name of a windows based EXE or DLL. The first parameter is the file name and the second parameter is the module name. Type the following line at DOS prompt:

*chgcomm WRPICOM.DRV ORG\_COM*

3. Place WRPICOM.DRV in Windows directory, Windows' system directory or directories on the PATH.

### 4) Known Bugs:

The following is a list of known bugs that are currently being resolved:

No known bugs.

### 5) Notes on running WinRPI 2.XX on RPI or RPI+ modem:

#### RPI+ modem:

To run the RPI+ modem the users needs to issue the following string before calling or answering:

*AT&C1&D2&K3+H11*

In the RPI+ mode, the user can select the protocol, compression and display type via AT commands (e.g. S36, S48, S95, etc.) See the AT command reference manual for additional information.

WRPI.INI file, which is used with the regular RPI modem and described below, has no effect on the operation of the RPI+ modem.

When the WinRPI driver is installed, the users should disable the DAPI functionality in DAPI awared communication packages.

#### RPI modem :

To run RPI modem the user needs to issue the following string before calling or answering :

*AT&C1&D2&K3+H3S95=1*

In the RPI mode, the user selects the protocol, compression and display types via WRPI.INI file. If the WRPI.INI file does not exist, protocol, compression and display types are set to the same factory default as those of RPI+ modems. See the AT command reference manual for additional information.

To disable the WinRPI functionality, the users should set *EnableWinRPI* in the *[Config]* section to 0 in the WRPI.INI file as shown below:

*[Config]*

*EnableWinRPI= 0*

If the WRPI.INI file or the *EnableWinRPI* entry does not exist, the WinRPI is by default disabled when using a RPI modem.

Disabling the WinRPI functionality is required if the user wants to perform:

1. Fax or voice functionalities on a RPI modem with WinRPI driver installed. (Note, there are no such constraints if the user is using the RPI+ modems.)
2. Run DAPI-aware communication applications.

Changes to the WRPI.INI file take effect the next time a user opens up a communications application. That is, the user should make the desired WRPI.INI change before opening up a comm package. Although the user can make changes to the WRPI.INI file while the comm package is opened, the user must exit and re-enter the comm package for the new setting to take effect.

The setup will place the WRPI.INI in the Windows' root directory. The setup will also install an applet called *WinRPI Enhancer*, which allows the users to manipulate the WRPI.INI file. WinRPI Enhancer provides supplemental functionalities to RPI modems only. It has no effect on RPI+ modems.

#### **6) Bug fixed:**

The following bugs were fixed:

Ver 2.26:

1. Connect message with DTE set to 115200
2. Cannot connect to USR when remote is forced to MNP.

Ver 2.25:

1. Genie connection problem.
2. Telix connection problem.
3. Certain MNP3 modems connection problem.

Ver 2.24 Beta:

1. Fax does not work well with FaxWorks (big gaps of space between lines).