

Clone and DIY Activation Procedure

The purpose of this document is to explain few easy steps on how to activate your cloned or DIY (Do It Yourself) Prodigy device. In order to have your device activated properly, please follow the explanation step by step.

1. Programming your PIC18LF452.
2. Activating your Prodigy device for installing latest Prodigy firmware.
3. Signing your Prodigy device with our server.
4. Activating your Prodigy device for use with the latest Prodigy software.

For latest information and releases, please check the official web site:
<http://www.prodigybox.com>

For support, please visit our forum:
<http://www.gsm-support.biz>



Programming your PIC18LF452

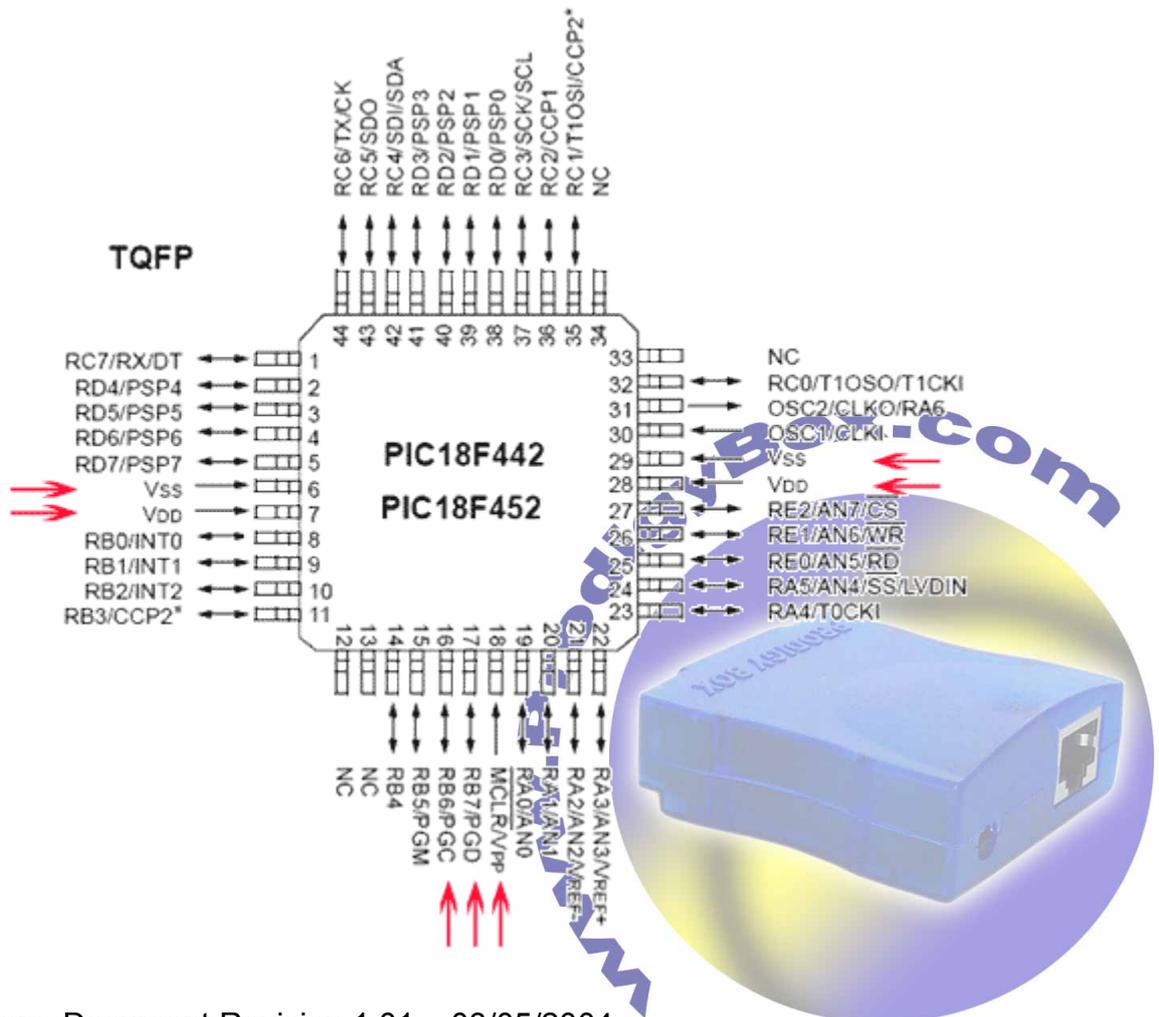
Your Prodigy device contains a microcontroller PIC18LF452 which has firmware (hex code) inside to be operational. This hex code is programmed in the microcontroller in a special way. You will require a computer and a programmer to be able to program your PIC18LF452. Connect you programmer to the PIC and load the supplied ProdigyActive.hex, then program the Flash, Eeprom and Fuses. You will need to make sure that the external eeprom has the correct file too, please check the supplied ExternalEEPROM.bin – this is the content of the external eeprom.

To get further help on programming of the PIC inside Prodigy check this Forum discussion:

<http://forum.gsmhosting.com/vbb/showthread.php?t=111043&page=1&pp=15>

Please note that you MUST not change anything in the provided hex. Otherwise, your device will not be able to connect to our server. This includes the FUSES of the PIC18LF452. Additionally the device has to comply with the official device schematics, please check the following page.

Here is a picture which pins you will need to connect on your Prodigy device.



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The picture above is just an example of which pins are connected and is for TQFP package. For QFN – a small package with no pins, the pinout is the same. For DIP package, you will need the data sheet of the microcontroller.

You may consider downloading the PIC18LF452 data sheet from Microchip web site:

http://www.microchip.com/stellent/idcplg?IdcService=SS_GET_PAGE&nodeId=1335&dDocName=en010296

If you cannot find it there, this is the official Microchip site – www.microchip.com and you can make a search for the data sheet very easily.

For more information, software and connection diagrams to program your PIC18LF452 please visit the following web sites:

<http://www.propic2.com/>

<http://www.ic-prog.com/>

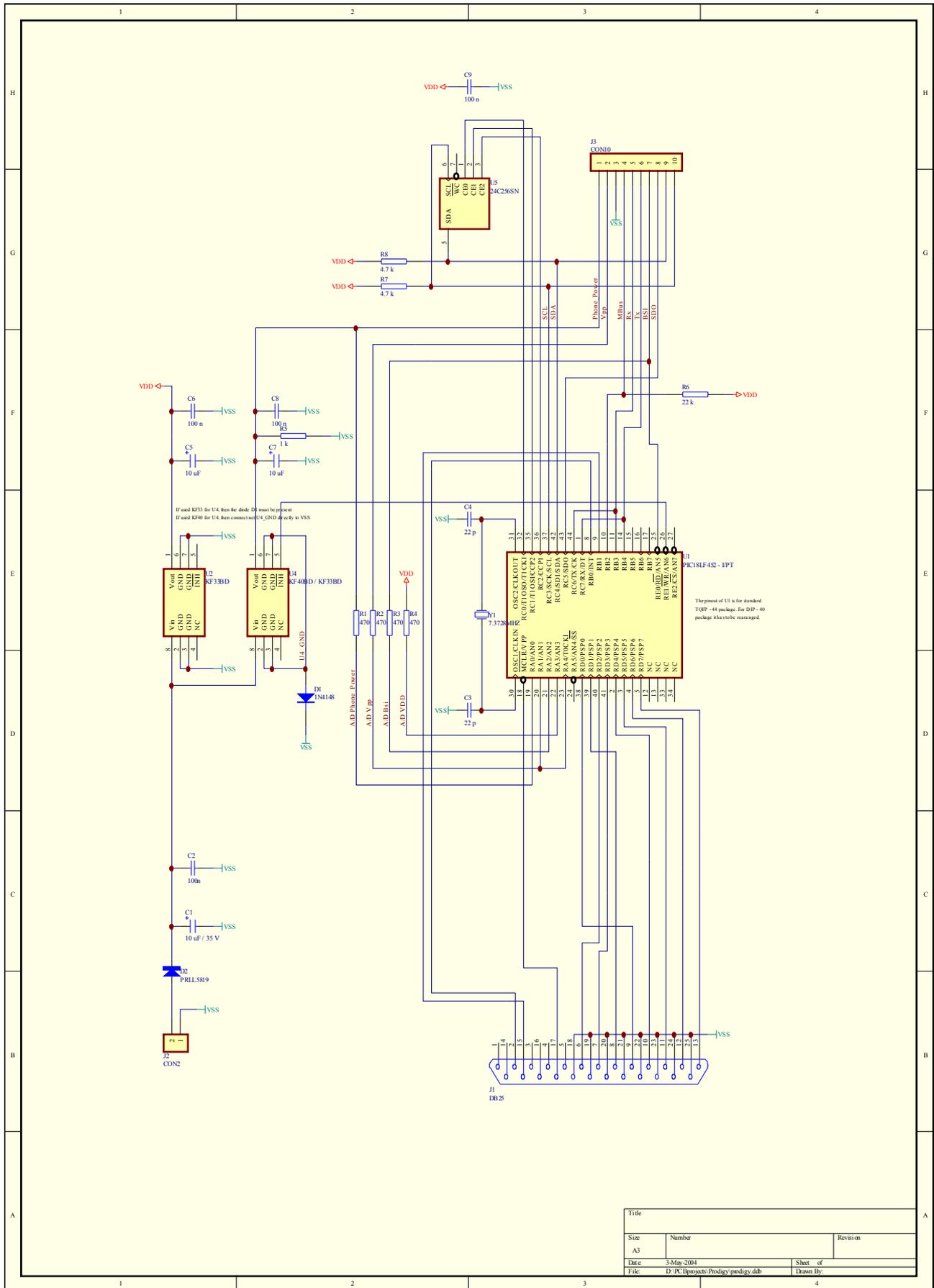
<http://www.lancos.com/prog.html>

You can also use these links for programming your external eeprom – 24LC256. We recommend the use of this eeprom manufactured by Microchip.

If programming is successful Prodigy.exe 1.0.615 should be able to detect your device.

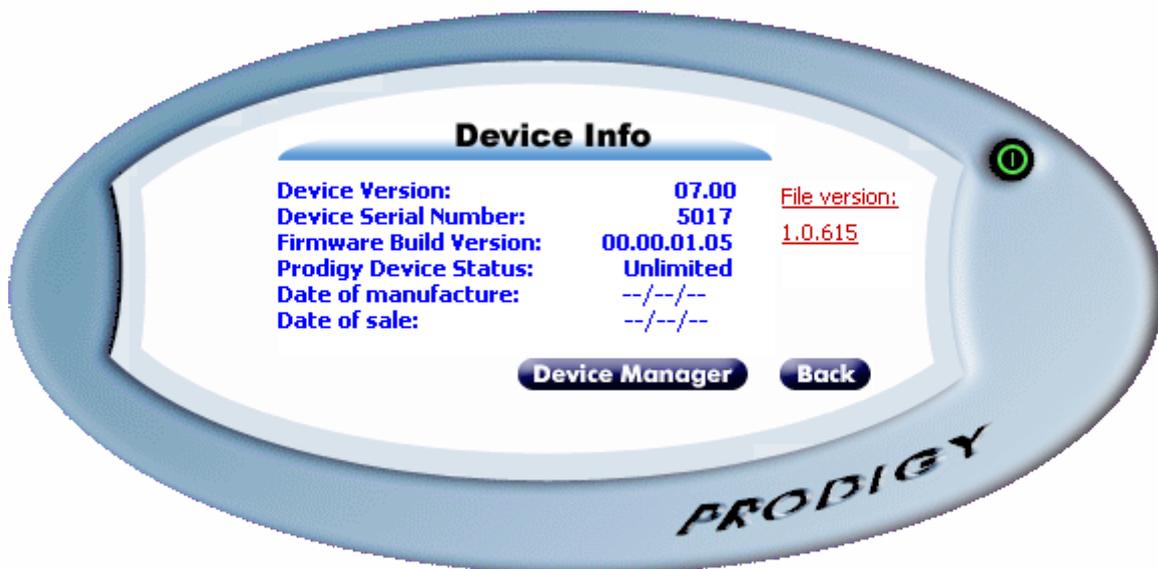


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Activating your Prodigy device for installing latest Prodigy firmware

Please remove all Prodigy software versions from your PC and install version 615 of Prodigy software. After installation, please restart your PC when asked. After you have restarted your PC, please attach a phone to your device and run the software. You must have the following picture on your display.



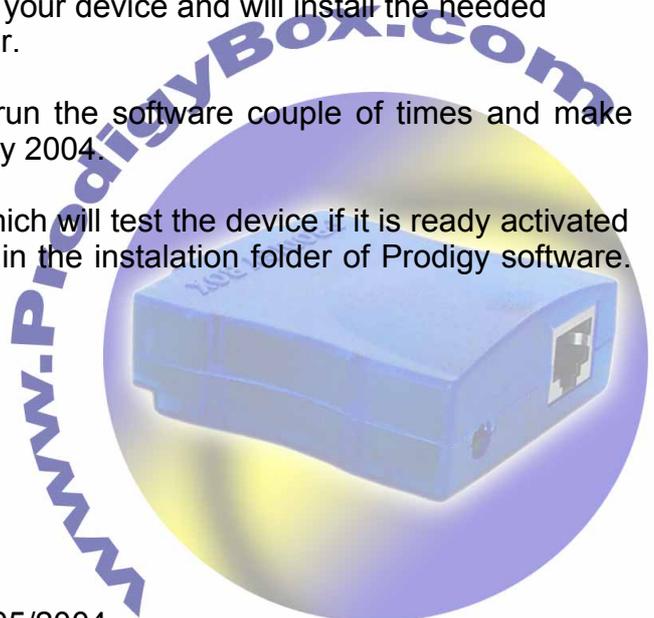
These are the details of your Prodigy. You can see that the device version is 07.00, the serial number is 5017, the firmware build version is 00.00.01.05 and the device status is unlimited.

Please note that your details should look like exactly like this, otherwise you will not be able to proceed to the next step.

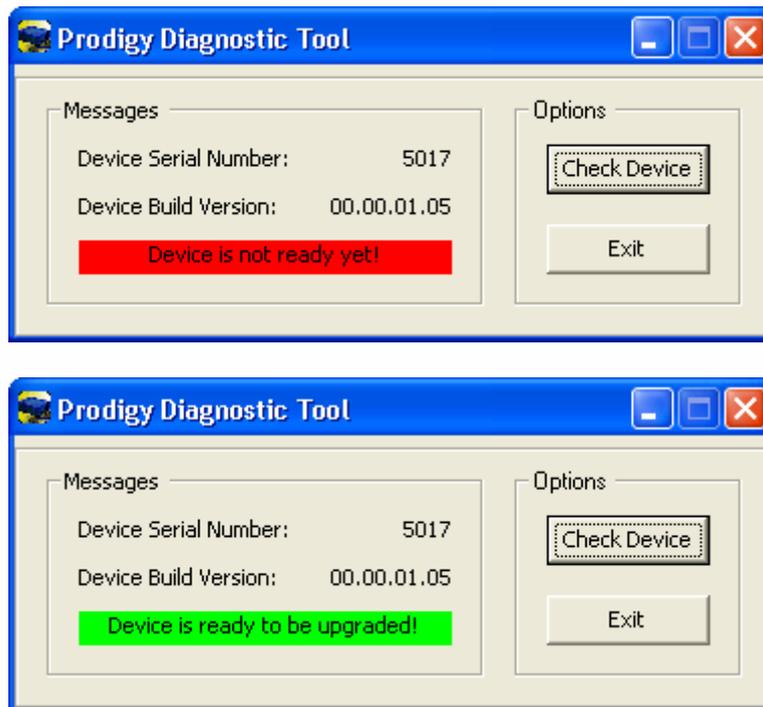
Prodigy software will perform some checks on your device and will install the needed updates to be able to use the new update server.

In order to have this done, you will need to run the software couple of times and make sure the date of your PC is set after 10 January 2004.

You are provided with utility "ProdDiag.exe" which will test the device if it is ready activated for the latest firmwares. Please put this utility in the instalation folder of Prodigy software. Here is how this utility looks like



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You will constantly need to run the utility and make a check on the device to see if it is ready activated. If the program shows that the device is not ready, please run Prodigy software again. After your device has been activated, it will show the second picture - "Device is ready to be upgraded" - in green



Signing your Prodigy device with our server

By doing this we will install a small piece of code in your Prodigy device, which will enable your device for future updates distributed by our server.

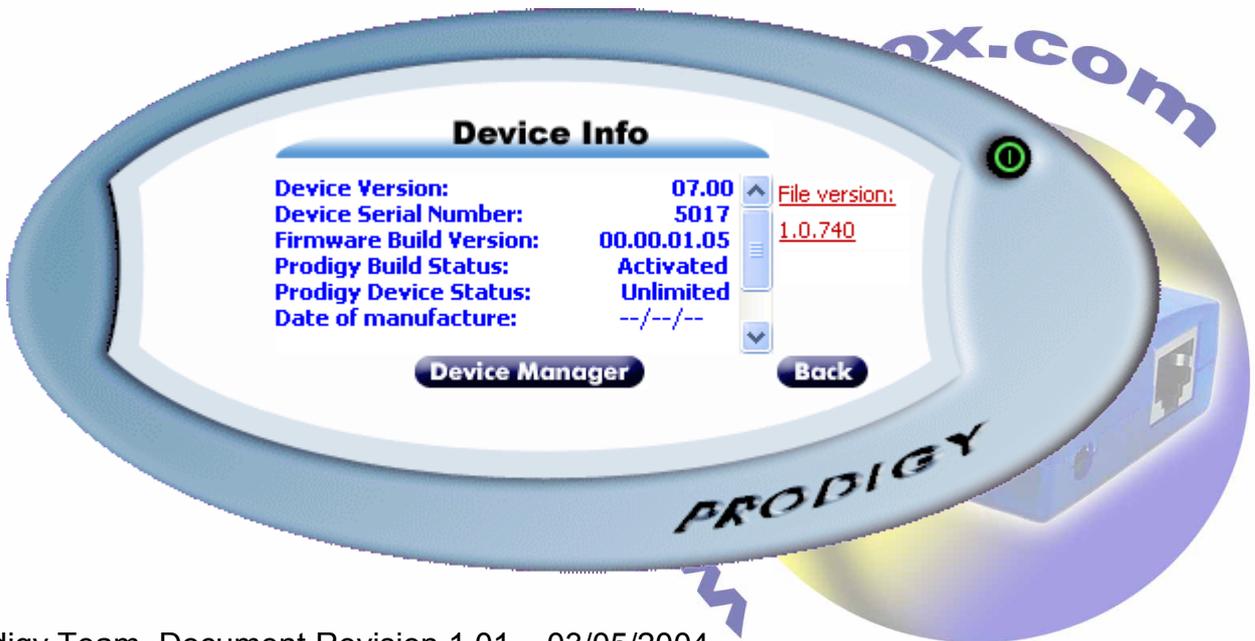
First of all what you need to do is unistall Prodigy software 615 and install the latest one which is available from www.prodigybox.com . The current one is 740. Don't forget to restart your PC after the uninstall of version 1.0.615 and after instalation of the latest available Prodigy version (1.0.740 for example).

Please note that the server will work only on the latest Prodigy software.

Here is a screen shot of how your device will look like on the latest software 740

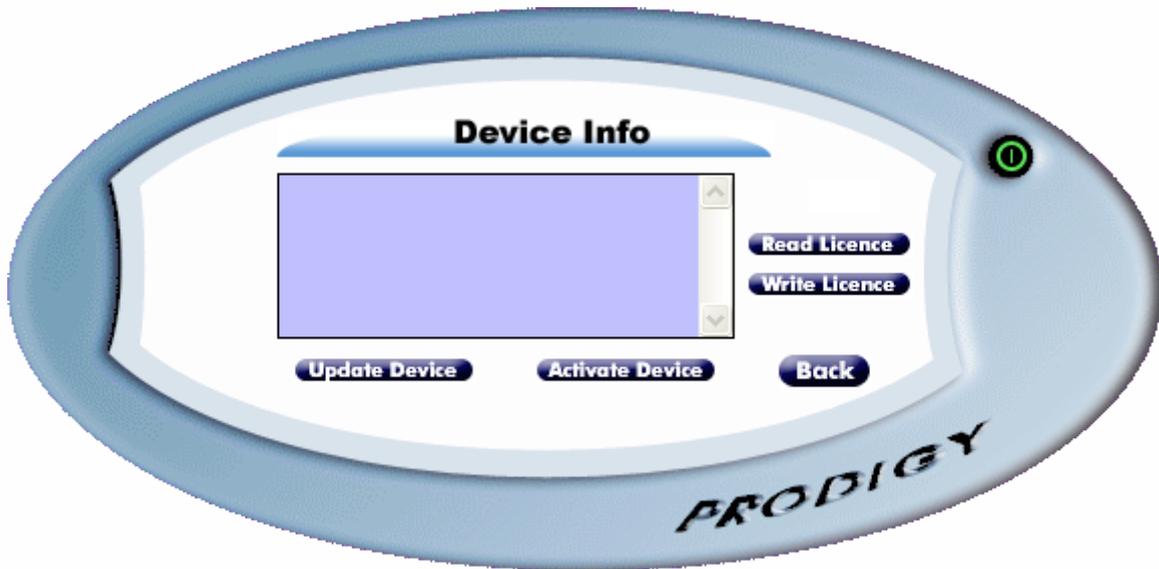


Scroll down and go to Device Info menu. You will see the following screen.

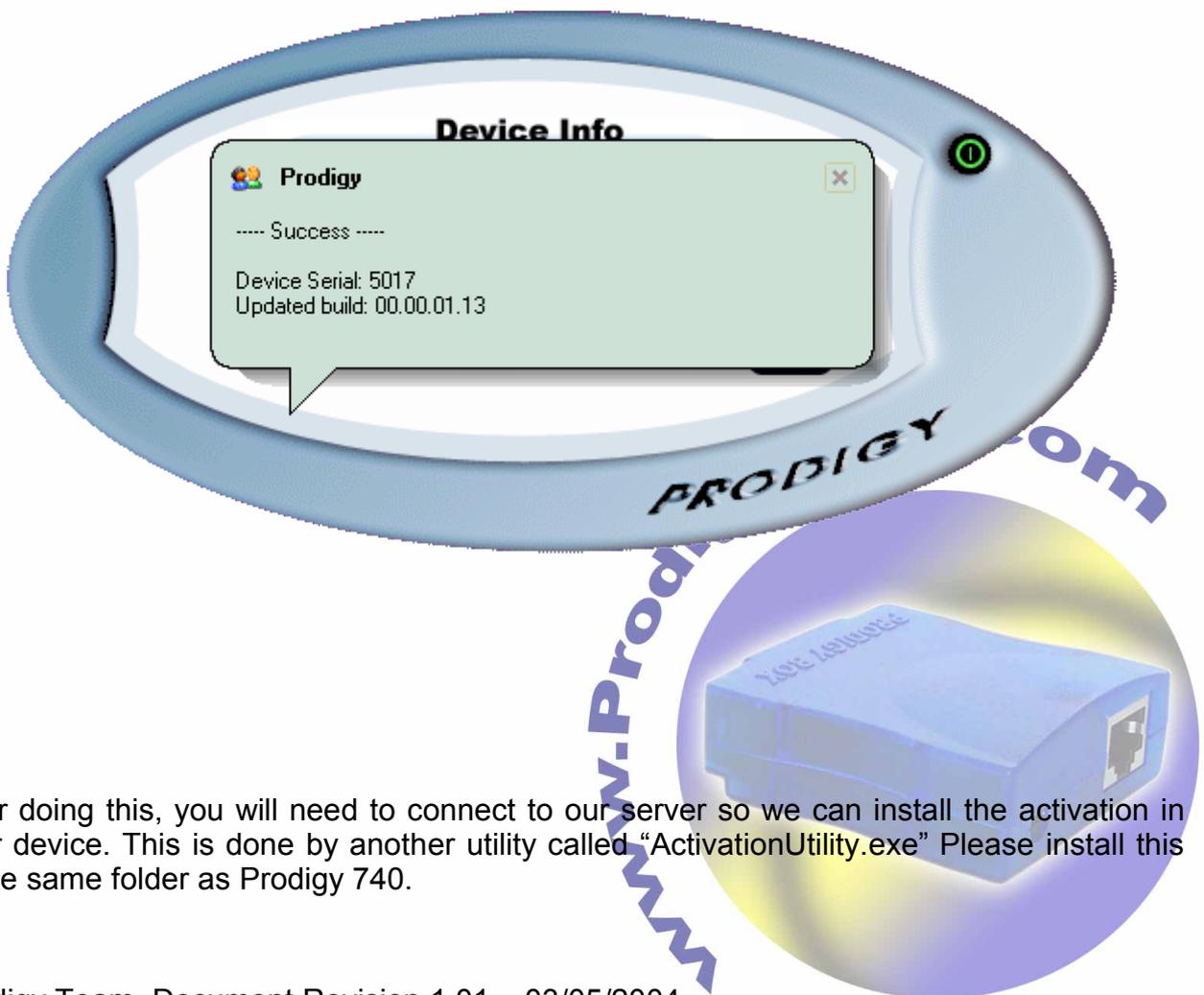


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Then click “Device Manager” button and you will have the following screen.

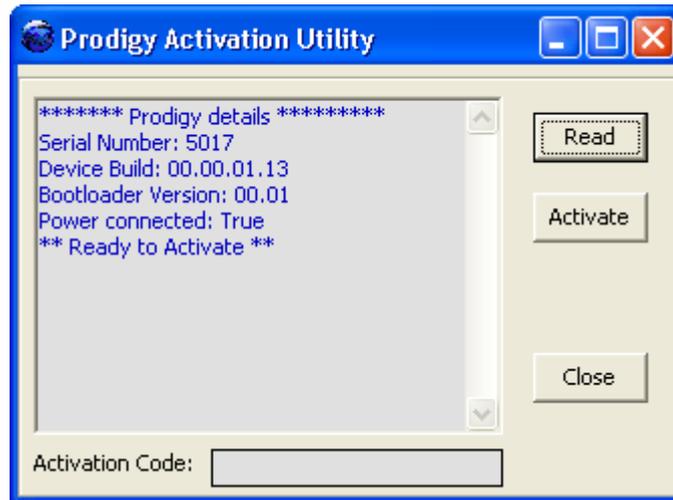


Click “Update Device” button. The software will show “Updating Device” in the window, and after a while when done it will show that prodigy has been successfully updated to the latest firmware build.



After doing this, you will need to connect to our server so we can install the activation in your device. This is done by another utility called “ActivationUtility.exe” Please install this in the same folder as Prodigy 740.

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First make sure you give full Internet access of the utility for the time being used. Note that some firewalls, antivirus and other corporate security products can block the ports of your system silently in order to make their usage easy to use. In general you should not have a problem connecting to our server if using good and free Firewall as ZoneAlarm.

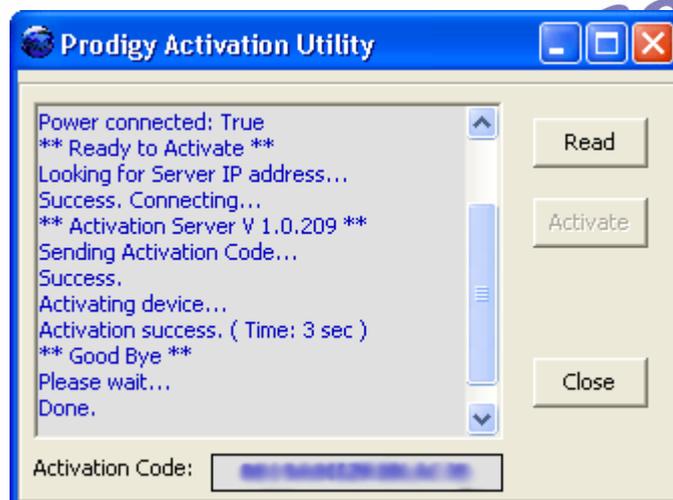
Click "Read" and the activation utility will perform some tests on the device. It will show you the serial number, device build, bootloader version, device power state. If any of these are not ok, then the utility will show that the device is not ready for activation.

For access to our server, you will be given access code which is 17 chars long – small and capital letters, mixed with digits. Please note that there is no algorithm for this code, and there is no need for reversing. To obtain the code you will have to contact: activation@prodigybox.com. In order to obtain this code there is a small fee which is collected for each activation.

Also note that your code is only for you and once used, you will not be able to use it for second time, so please don't share it before use.

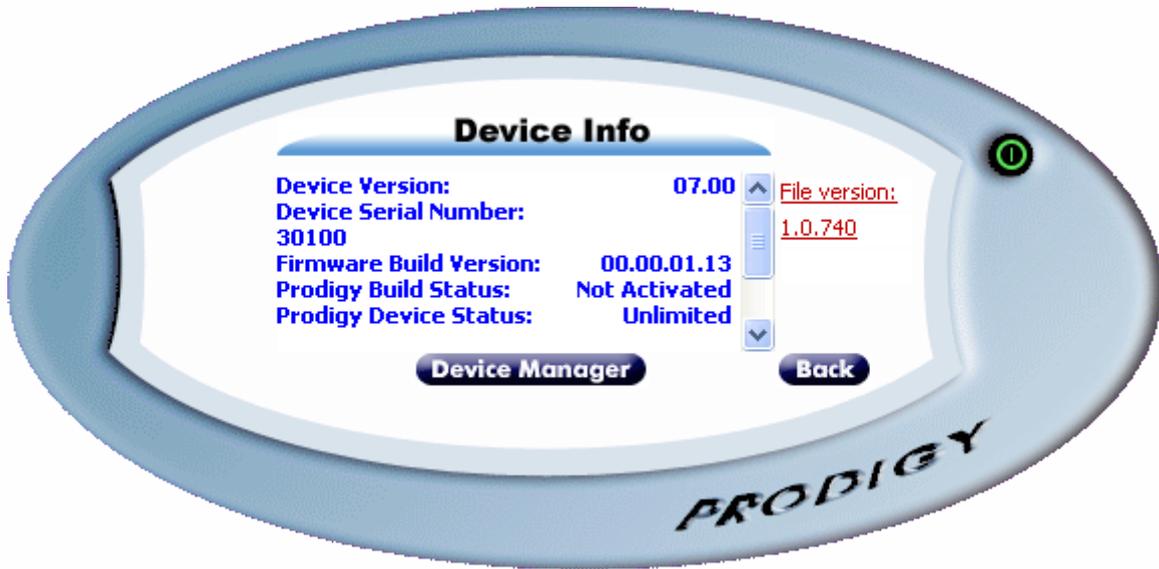
Please enter the code in the box named "Activation Code:".

Then click "Activate" button. The utility will connect to our server and download the application which needs to be installed into your device. After the utility has successfully installed the application, it will show you that it is done.

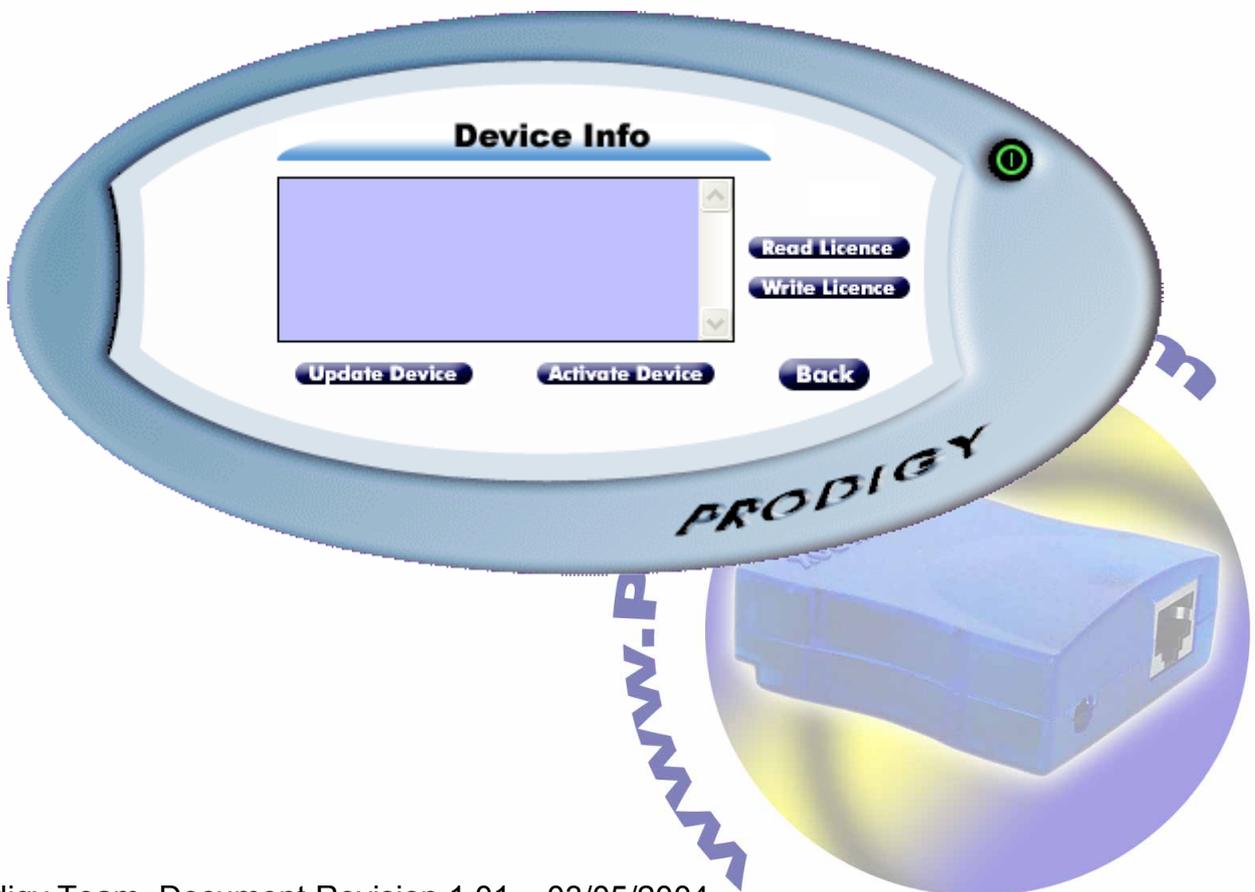


Activating your Prodigy device for use with latest Prodigy software

After successful signing with our server, you will receive a new serial number. Please run Prodigy software version 740 and go to "Device Info Menu". You will see the following:



You can see the new serial number assigned to your device. Then click "Device Manager" button and you will have the following screen.



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Click "Activate Device" button. Prodigy software will connect to our server and request the activation for your device. If everything is ok, you will have your device activated for Prodigy 740.



As you have signed your device with our server and have successfully upgraded it to build 00.00.01.13, you have access to all latest and hot updates which follow.

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Prodigy Team

Prodigy Team, Document Revision 1.01 – 03/05/2004

