

## Option GlobeTrotter WCM Multiplexing

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We are pleased to announce that the Option GlobeTrotter WCM software program now supports multiplexing of voice and data connections. This application note will explain the function of multiplexing as it applies to the WCM software program, loading the WCM program, and methods used to test multiplexing.

### WCM Multiplexing

The multiplexing methodology used with the GlobeTrotter card and WCM software provides the functionality to have a data connection and voice connection active. Prior versions of WCM had a restriction where if a user was connection to the GPRS network, and performing data transfer (WEB browsing, email message transmission/retrieval, etc), and a voice call was activated then the user would be prompted to terminate the GPRS connection. This limitation has now been overcome with the release of WCM version 1.04.1.1, along with GlobeTrotter card firmware version 3.2.26.

Multiplexing does not provide simultaneous GPRS and GSM connectivity, but provides a mechanism where the GPRS connection can be put on hold while attending to a GSM connection. This functionality also operates where a GSM connection can be put on hold while attending to a GPRS connection.

### Confirming the version number of WCM and GlobeTrotter card firmware

To confirm the version number of the WCM software please us the following steps;

1. Execute the WCM software  
(Make sure the GlobeTrotter card is inserted)
2. From the main menu select “?”
3. Select “About GlobeTrotter WCM”
4. The version number will be described

To confirm the firmware version number of the GlobeTrotter card please us the following steps;

1. Execute the WCM software  
(Make sure the GlobeTrotter card is inserted)
2. From the main screen view the details in the right hand pain, the current firmware will be listed.

### **WCM Version 3.2.26 Loading**

Please be aware that the new multiplexing feature of WCM is only available for the following operating system;

- Windows 2000 Professional
- Windows XP

The multiplexing feature of WCM is not supported for the following operating systems;

- Windows 98
- Windows ME
- Windows NT 4

Please follow the instructions as described in the installation instructions for loading WCM software.

During the setup process a number of virtual COM ports will be created. The COM functions can be viewed from the Modem Options in the Control Panel.

A number of tests were conducted including;

1. GPRS connection up, voice call made  
Following termination of the voice call the GRPS connection was resumed.
2. GPRS connection up, voice call received  
Following termination of the voice call the GPRS connection was resumed.