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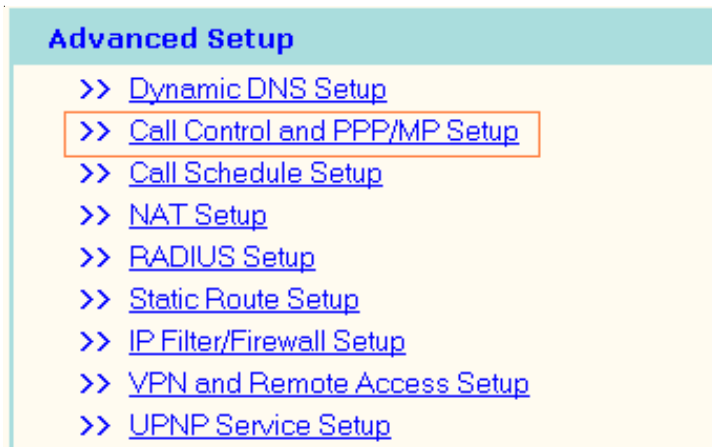
# Call Control and PPP/MP Setup

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## Introduction

Some applications require that the router be remotely activated, or dial up to the ISP using the ISDN interface. For instance, if you are a user who accesses the Internet via ISDN from home, usually the dialup connection is idle when you are not at home. It may be that while working in the office, you want to get some files from home. This function allows you to make a phone call to the router and ask it to dial up to the ISP. Then you access your home network to retrieve the files. Of course, you have to have a fixed IP address and expose some internal network resources, such as FTP, WWW etc.

The following explains how to setup call control and PPP/MP in Advanced Setup:



### Advanced Setup

#### > Call Control and PPP/MP Setup

#### Note:

As the Vigor/VigorWe model do not feature an ISDN interface, Call Control and PPP/MP Setup will not be available.

Click **Call Control and PPP/MP Setup**. The following screen will open.

The screenshot shows the DrayTek Router Web Configurator interface. At the top, there's a blue header with the DrayTek logo and the title "Router Web Configurator". Below the header, a navigation bar shows the path "> Advanced Setup > Call Control and PPP / MP Setup" and a link "<< Main Menu". The main content area is titled "Call Control Setup" and contains two sections: "Call Control Setup" and "PPP/MP Dial-Out Setup". The "Call Control Setup" section has fields for "Dial Retry" (set to 0 times) and "Dial Delay Interval" (set to 0 second(s)), along with a "Remote Activation" field. The "PPP/MP Dial-Out Setup" section is divided into "Basic Setup" and "Bandwidth On Demand (BOD) Setup". The "Basic Setup" section includes "Link Type" (set to Dialup BOD), "PPP Authentication" (set to PAP or CHAP), "TCP Header Compression" (set to None), and "Idle Timeout" (set to 180 second(s)). The "Bandwidth On Demand (BOD) Setup" section includes "High Water Mark" (set to 7000 cps), "High Water Time" (set to 30 second(s)), "Low Water Mark" (set to 6000 cps), and "Low Water Time" (set to 30 second(s)). An "OK" button is located at the bottom of the form. The footer of the page states "Copyright (c) 2000, DrayTek Corp. All Rights Reserved."

## Enabling the Remote Activation Function

Specify a phone number in the Remote Activation field.

This close-up shows the "Remote Activation" field, which is a text input box containing the phone number "12345678".

If the router accepts a call from the number 12345678, it will disconnect immediately and dial to the ISP. Note that **Internet Access Setup > Dialling to a Single ISP** should be preset properly.

## Call Control Setup

On the **Call Control and PPP/MP Setup** setup page, you will see **Dial Retry** and **Dial Delay Interval**.

This close-up shows the "Dial Retry" and "Dial Delay Interval" fields. "Dial Retry" is set to 0 times, and "Dial Delay Interval" is set to 0 second(s).

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These two parameters set global settings for ISDN dialup access.

**Dial Retry:** Specifies the dial retry counts per triggered packet. A triggered packet is any packet whose destination is outside the local network. The default settings is no dial retry. If set to 5, for each triggered packet, the router will dial 5 times until it is connected to the ISP or remote access router.

**Dial Delay Interval:** Specifies the interval between dialup retries. By default, the interval is 0 seconds.

## Configuring the BOD Parameters

BOD stands for bandwidth-on-demand for Multiple-Link PPP (ML-PPP or MP). Click **Call Control and PPP/MP Setup** to see the following settings.

Bandwidth On Demand (BOD) Setup	
High Water Mark	<input type="text" value="7000"/> cps
High Water Time	<input type="text" value="30"/> second(s)
Low Water Mark	<input type="text" value="6000"/> cps
Low Water Time	<input type="text" value="30"/> second(s)

These parameters are activated when you set the **Link Type** to **Dialup BOD**. Usually the ISDN will use one B channel to access the Internet or remote network when you use the Dialup BOD link type. The router will use the parameters here to make a decision on when to activate/drop the additional B channel. Note that **cps** (characters-per-second) measures the total link utilization.

**High Water Mark and High Water Time:** These parameters specify the conditions under which the second channel will be activated. When the utilization of the first connected channel goes over the High Water Mark and past the High Water Time, the additional channel will be activated. The link speed will then be 128kbps (two B channels).

**Low Water Mark and Low Water Time:** These parameters specify the conditions under which the second channel will be dropped. When the two B channel's utilization is under the Low Water Mark and past the High Water Time, the additional channel will be dropped. The link speed will be 64kbps (one B channel).

**Note:**

If you are not familiar with ISDN and ML-PPP's operation, be wary of changing the default values.

Click **OK**.