



DVB-PC TV Stars

User's Guide Part 1
Installation

User's Guide Part 2
Setup4PC/Server4PC

User's Guide Part 3
DVBCViewer TE

This manual covers the following products:

TechniSat CableStar 2 PCI
IP reception

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TechniSat DVB-PC TV Stars - Users Guide Part 2: Setup4PC/Server4PC

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Chapter 1: Introduction

Defining the TechniSat DVB-PC TV Stars

Defining CableStar 2 PCI

CableStar 2 PCI is a small board that is plugged into a PCI slot of your computer. It gives you unprecedented access to any free available broadcast digital cable television channel (DVB-C).

Using IP services with a DVB-PC TV Star Device

The TechniSat DVB-PC TV Stars products will request all information by ground-based Internet. In response the requested data will be delivered using satellite, broadband cable or terrestrial systems at high speed.

Using printed help

The DVB-PC TV Stars product range includes the 4 parts of the Users Guide (Part 1: "Installation" / Part 2: "Setup4PC/Server4PC" / Part 3: "DVBViewer TE" / Part 4: "Troubleshooting").

User's guide conventions

For clarity, the User's Guide employs the following conventions:

1. Navigation paths are represented as follows:

"Start" => "Programs" => "TechniSat DVB" => "Setup4PC"

The path shown in this example launches Setup4PC

2. Pay attention to the following:



This icon designates a note, which is an important information to the description above.



This icon designates a warning, which is an important information to the description above.

3. The DVB-PC TV Stars TV application "DVBViewer TechniSat Edition" is designated in the following as "DVBViewer TE"

User Task Summary

Steps to perform basic user tasks are summarized below.

Step one: Configuring Setup4PC and Server4PC for data reception

Follow the steps to learn about the functionality of Setup4PC and Server4PC for your device (CableStar 2 PCI)

Chapter 2: Describing the functionalities

Overview

This chapter explains the functionalities of Setup4PC/Server4PC in combination with your DVB-PC TV device and which settings you have to setup the data reception.



Server4PC is necessary for data reception only. If you want to know, how to configure software for TV reception and don't want to know how to setup your card for data reception, continue with the third part of this manual.



If you operate a number of TechniSat DVB-PC TV Stars devices, there will appear one Server4PC icon for each device installed to the system. The data service handling of all devices is independent from each other.



The MAC address of each device assigned to a Server4PC icon is shown within Setup4PC device selection and as hover tool tip text of Server4PC. Each TechniSat DVB-PC TV stars will have one IP address assigned.



For data reception services, like "Internet via DVB-T" you also need provider or service specific software, which receives the data from the DVB device. This software is not shipped within the DVB-PC TV Stars package. For further information contact your Internet service provider.



For most Internet services you need a return channel, which can be a PSTN, ISDN, GSM/GPRS/UMTS or network connection to the Internet. Ask your Internet service provider for further information about the return channel, which is required for the service.



Data reception is not possible if you are using Server4PC and the TV application DVBViewer at the same time. If you want to receive data, you have to close the active DVB TV application.

CableStar2 PCI

Open Setup4PC

You reach Setup4PC by right clicking onto the Server4PC Icon and select the Setup4PC option:

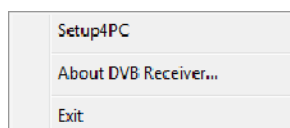


Figure 2.1: Server4PC Context Menu

Now, the Setup4PC window appears:

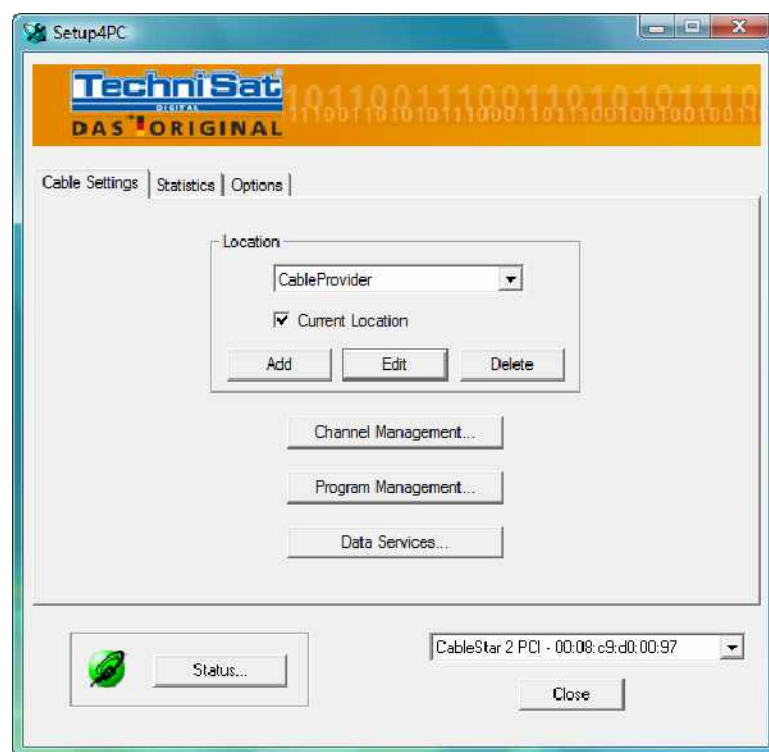


Figure 2.2: Setup4PC - Cable Settings



Possible states of Server4PC (CableStar 2 TV PCI)



Channel tuned. The Server4PC is ready to receive data using the settings of the selected data profile or TV/radio using the running TV application.



No channel tuned. This might be possible, if no channel is tuned by a TV application, no data profile is selected or no data profile is available.



No TechniSat DVB-PC TV Stars device available. In this case you should check, if the driver for the PCI card is installed correctly and if the device is working properly.

Configuring location settings

The first option you have to configure, are your location settings.

Click “Add” to add a new location to your configuration



Figure 2.3: Add Location

Enter the name for your location and press “OK” to confirm the settings.

Managing channels

Next step is the configuration of the channel management. You have to use the “Channel Management” button in Setup4PC cable settings.

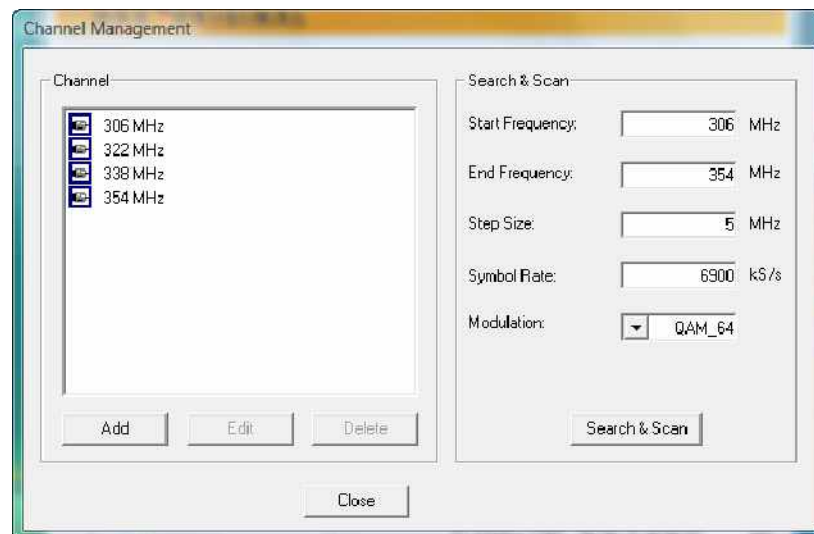


Figure 2.4: Channel Management

There are two ways of adding new channels: adding channels manually and by automatic scan.

Add channels manually:

Click the “Add” button on channel management and this window appears:

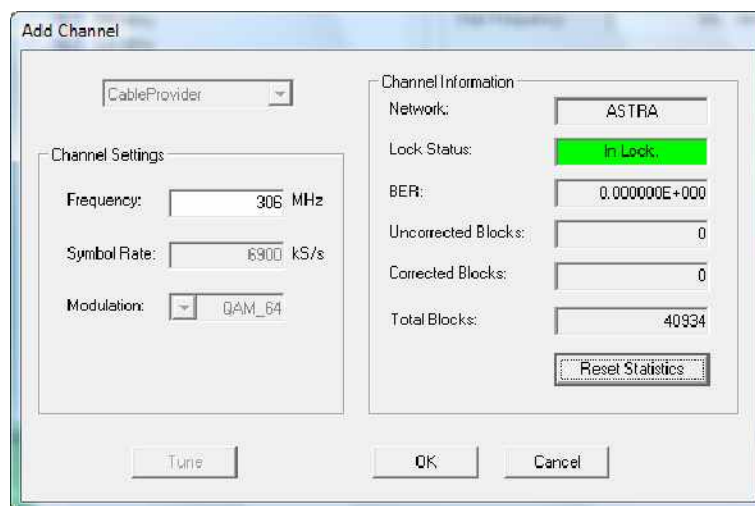
The "Add Channel" dialog box is divided into two main sections. On the left, under "Channel Settings", there are input fields for "Frequency" (set to 306 MHz), "Symbol Rate" (set to 6900 kS/s), and a "Modulation" dropdown menu (set to QAM_64). On the right, under "Channel Information", there is a "Network" dropdown (set to ASTRA), a "Lock Status" indicator (a green button labeled "In Lock"), a "BER" field (0.000000E+000), and counters for "Uncorrected Blocks" (0), "Corrected Blocks" (0), and "Total Blocks" (40934). A "Reset Statistics" button is located below these counters. At the bottom of the dialog are "Tune", "OK", and "Cancel" buttons.

Figure 2.5: Add Channel

Enter the frequency and symbol rate values of the channel you would like to add and click “OK” to confirm.

Scan for channels

In this case you have to enter the start and end frequencies, the step size and the symbol rates, which should be tested. After these values are entered, press “Search & Scan” to start the process.

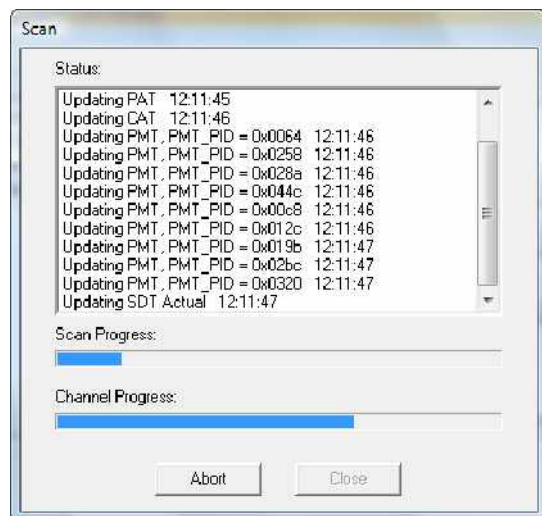
The "Scan" dialog box features a "Status:" label above a list box. The list box contains the following text: "Updating PAT 12:11:45", "Updating CAT 12:11:46", "Updating PMT, PMT_PID = 0x0064 12:11:46", "Updating PMT, PMT_PID = 0x0258 12:11:46", "Updating PMT, PMT_PID = 0x028a 12:11:46", "Updating PMT, PMT_PID = 0x044c 12:11:46", "Updating PMT, PMT_PID = 0x00c8 12:11:46", "Updating PMT, PMT_PID = 0x012c 12:11:46", "Updating PMT, PMT_PID = 0x019b 12:11:47", "Updating PMT, PMT_PID = 0x02bc 12:11:47", and "Updating PMT, PMT_PID = 0x0320 12:11:47". Below the list box are two progress bars: "Scan Progress:" and "Channel Progress:". At the bottom are "Abort" and "Close" buttons.

Figure 2.6: Scan

This process can take several minutes. After the process has finished all found transponders will be listed in the transponder list. Press “OK” to confirm the settings.

Managing programs



The option “Program Management” is not necessary for data reception. If you want to configure transponders for the purpose of watching DVB channels, you have to configure those options in the TV reception application DVBViewer TE. If you change the settings in Setup4PC, it has no effect to DVBViewer TE or other applications.

Managing data services

The last configuration step, you have to perform is the configuration of the data service. To configure those options click onto the button “Data Services” in “Setup4PC Cable Settings”.

Figure 2.7: Data Services

In this tab you have to enter a service name using the “Add” button. After this you have to assign the transponder the service is hosted on. The last step is to enter the service PID’s. Please pay attention to the numbering format of the PID values. They can be provided in decimal numbering (0-9) or in hexadecimal numbering (0-F). You can switch between both numbering systems by enabling/disabling the checkbox “Hexadecimal”. The PID values will be transferred into the other format when changing this option.

You will get the data service information from your service provider.

Other options of Setup4PC/Server4PC

Channel Status:

On this tab the current used channel settings and signal quality information are shown. Use this tab for checking the functionality of your wiring.

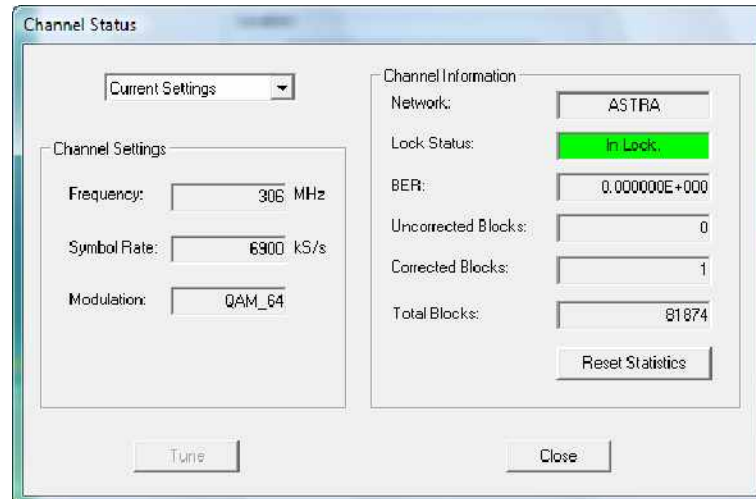


Figure 2.8: Channel Status

Statistics:

To debug data reception, use the tab statistics. Here all assigned MAC addresses; active PID's and the data rates are shown.

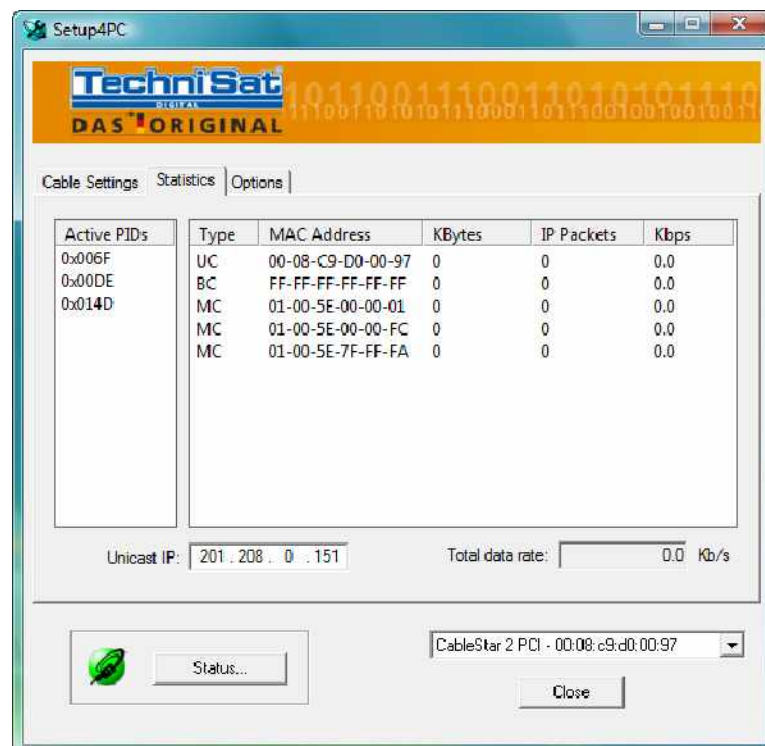


Figure 2.9: Setup4PC – Statistics