

HOWTO: "INT - description and usage"

Release date: 09/2005

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Introduction

This how to will introduce you to the INT feature within the software release 4.3.2 and will explain how to use this mechanism in combination with data services.



The availability of the INT feature depends on the satellite operator. If your satellite operator does not provide the INT within their satellite network, this software feature will not work.

The INT (IP/MAC notification table) is an auto tuning mechanism, which is used to provide an automatic setup for DVB IP data reception.

Within the data coming from the satellite the satellite operators transmit additional information like Program Service Information (PSI), which is used to provide all necessary settings for the TV and radio reception. While you're performing a channel scan on a satellite network, the DVB receiver waits for the PSI data and add the containing information about the bouquet and the TV / radio channels to the data base. After the scan has been completed you will have a list of all TV and radio channels available on the satellite network.

In case of data reception you have to deal with transponder settings, with data PID settings and other detailed configuration parameters and you also have to configure them by yourself. This is pretty much complicated and hard to understand. When a data service changes the transponder or the data settings, you have to change the configuration for the service, which is unlike easier to handle.

The INT table is very similar to the PSI, which is used for TV/radio reception. It might contain different bouquets like the PSI and it contains the necessary configuration information for many data services available.

After startup Server4PC will receive the INT information automatically. After the list is received completely, the auto tuning mechanism will be available. You have to start your data reception software only and Server4PC will be configured automatically.

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How to use INT with TechniSat DVB-PC TV Stars?

Necessary configuration

First of all you have to ensure, that you are receiving at least one satellite network, which provides the INT information.



At the time when this documentation was created, the INT was available for the following satellite networks:

19.2°E Astra 1C-1H & 2C

23.5°E Astra 1D/3A

28.2°E Astra 2A/2B/2D

Those three satellite systems are already configured within the release 4.3.2

All necessary configuration steps for the INT service have to be done within Setup4PC.

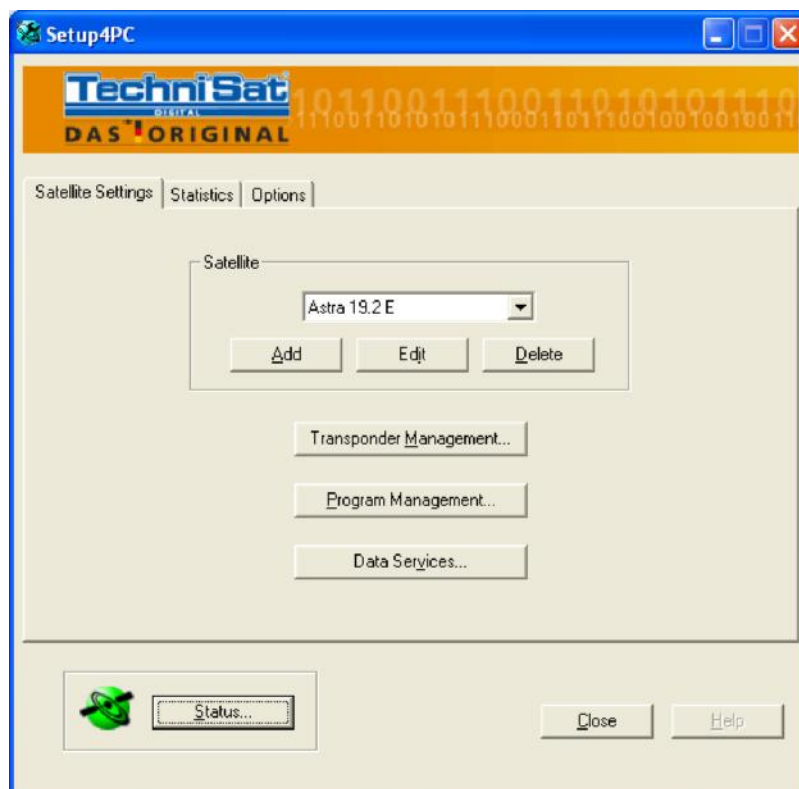


Figure 1: Setup4PC "Satellite Settings"

Single LNB connection:

If you receive one of the three listed orbital positions or another orbital position, which provides the INT, you don't have to change the configuration of Server4PC.

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Multiple LNB connection (DiSEqC)

If you are using a DiSEqC switch (e.g. TechniSat GigaSwitch 9/8) you have to setup the correct DiSEqC command within the satellite configuration. To open the configuration for satellites you have to start Setup4PC. Then select the satellite name for the network you want to edit and then press the button "Edit".

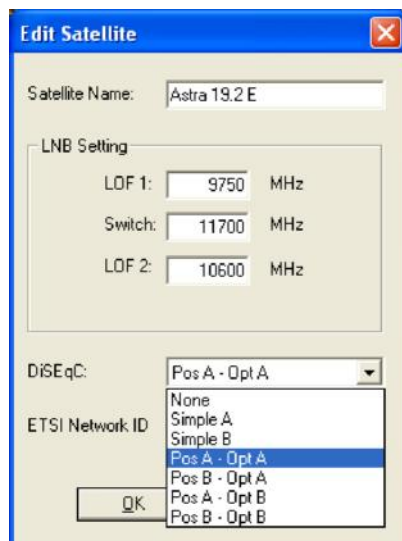


Figure 2: Edit Satellite

Here you have to select the required DiSEqC setting and press OK to confirm. You have to do this configuration step with all satellites, which can be received using your reception equipment.



The INT requires a correct setup for the received satellite positions within Server4PC/Setup4PC. If the Satellites are not configured correctly, the INT mechanism will not be able to work properly.

Enable/disable INT within Server4PC

By default the INT is disabled within Server4PC. After you configured the satellite systems correctly, you have to enable the INT by using the "Options" tab. Here you have to select the option "Enable Multi-Transponder switching".

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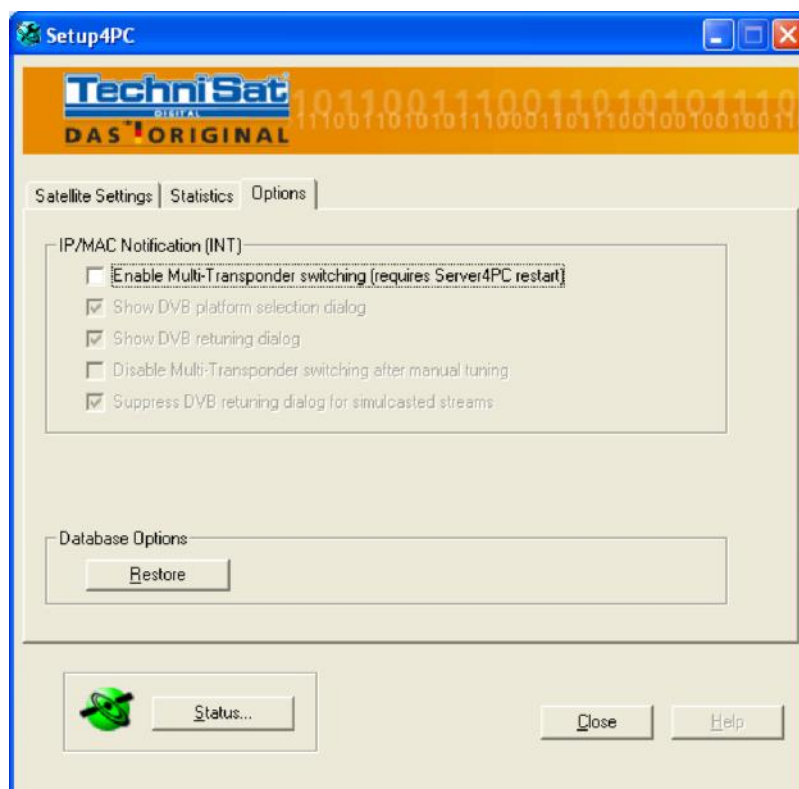


Figure 3: Setup4PC "Options"

After the INT was enabled within "Options" tab of Setup4PC, you have to close Setup4PC and Server4PC. Then start Server4PC again using the start menu "Start" => "Programs" => "TechniSat DVB" => "Server4PC".

Startup of Server4PC

After the Server4PC started each time, the DVB Platform selection dialog will appear.



Figure 4: DVB "Please select your IP/MAC platform"

Here you have to select your IP/MAC platform, which is used for the service you want to receive. You will get the name of the required platform from your Internet via satellite service provider.



If you always use the same IP/MAC platform, you might use the option "Remember platform selection and do not ask me again". The dialog will not

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appear again. You can enable this dialog again, if you enable the option Setup4PC => "Option" => "Show DVB platform selection dialog".

Start data service reception

After you started your data reception application, the INT mechanism will recognize, if the data service is available within the INT system. If the service is declared within the INT, the following message will appear:



Figure 5: Warning: DVB retuning

If you press the "Yes" button, Server4PC will set all settings for this data service. Now the data service is configured within the software and data can be received from the satellite.

The retuning attempt will not be processed and no data service will be available, if you press "No" or "Cancel".



If you want that Server4PC will always retune automatically, you have to select the option "Please do not ask me again". The dialog will not appear again. You can enable this dialog again, if you enable the option Setup4PC => "Option" => "Show DVB retuning dialog".

Switch data service

If you are already receiving a data service and another application requests to tune to another transponder, the DVB retuning dialog will appear again.



Figure 6: Warning: DVB retuning

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By using the "Yes" button Server4PC will retune to the requested transponder. The connection to the satellite will be lost for the first data application and the second application will receive data from the satellite.

If you want to decline the retuning attempt, you have to select "No".

Unknown data services

If you start an application, which requests data from the interface but the data service requested is not known within the INT, the following message will appear.

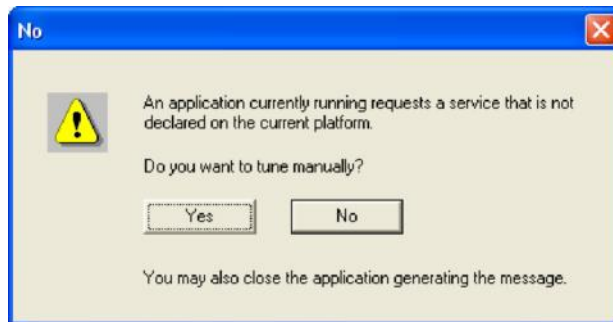


Figure 7: Manual tuning

If you select "Yes" the INT will be disabled until Server4PC is restarted. You have to select your data profile manually out of the profile list of Server4PC.

If you press "No", Server4PC will not process the request and the INT remains active.

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Options

Within the "Options" tab of Setup4PC you can configure the behavior of the INT feature.

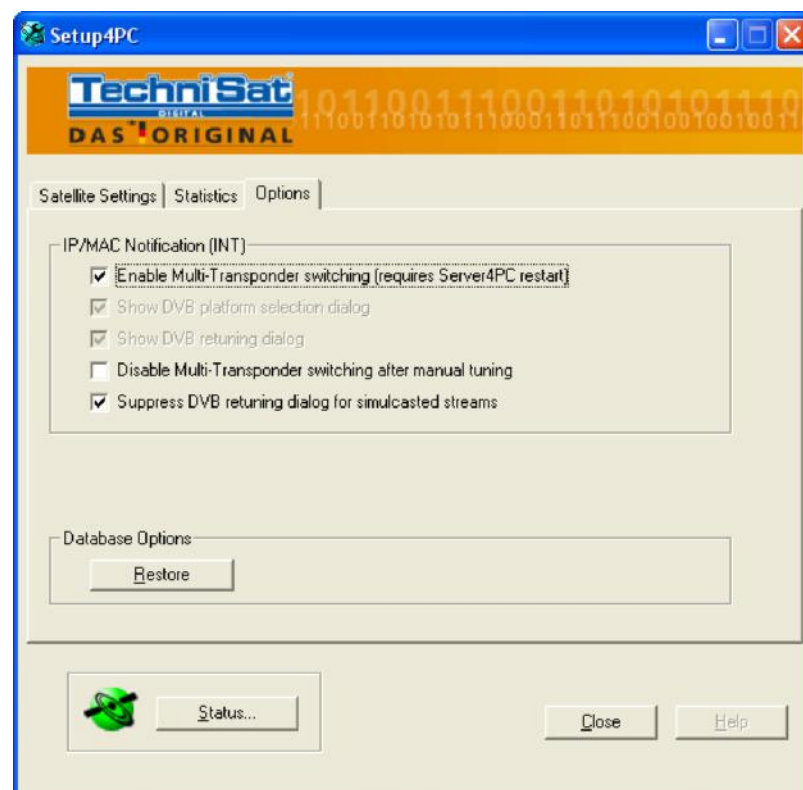


Figure 8: Setup4PC "Options"

- **Enable Multi-Transponder switching (requires Server4PC restart)**
This option is used to enable/disable the INT automatism
- **Show DVB platform selection dialog**
Using this option you can reset the platform selection dialog. By default this option is disabled. The option can be used only, if you selected the "Remember platform selection and do not ask me again" after you chose a DVB platform.
- **Show DVB retuning dialog**
This option reactivates the DVB retuning dialog of Server4PC. This option is available, if you selected "Yes" or "No" in combination with the checkbox "Please don't ask me again".
- **Disable Multi-Transponder switching after manual tuning**
If this option is enabled, the INT will stopped and Server4PC resumes in data profile mode after you choose "Yes" at the manual tuning dialog.
- **Suppress DVB retuning dialog for simulcasted streams**
By selecting this option, no retuning dialog will be shown, If you're receiving a simulcast data service, which is available on two transponders and a retuning to another transponder is requested, on which the simulcast data service is transferred.