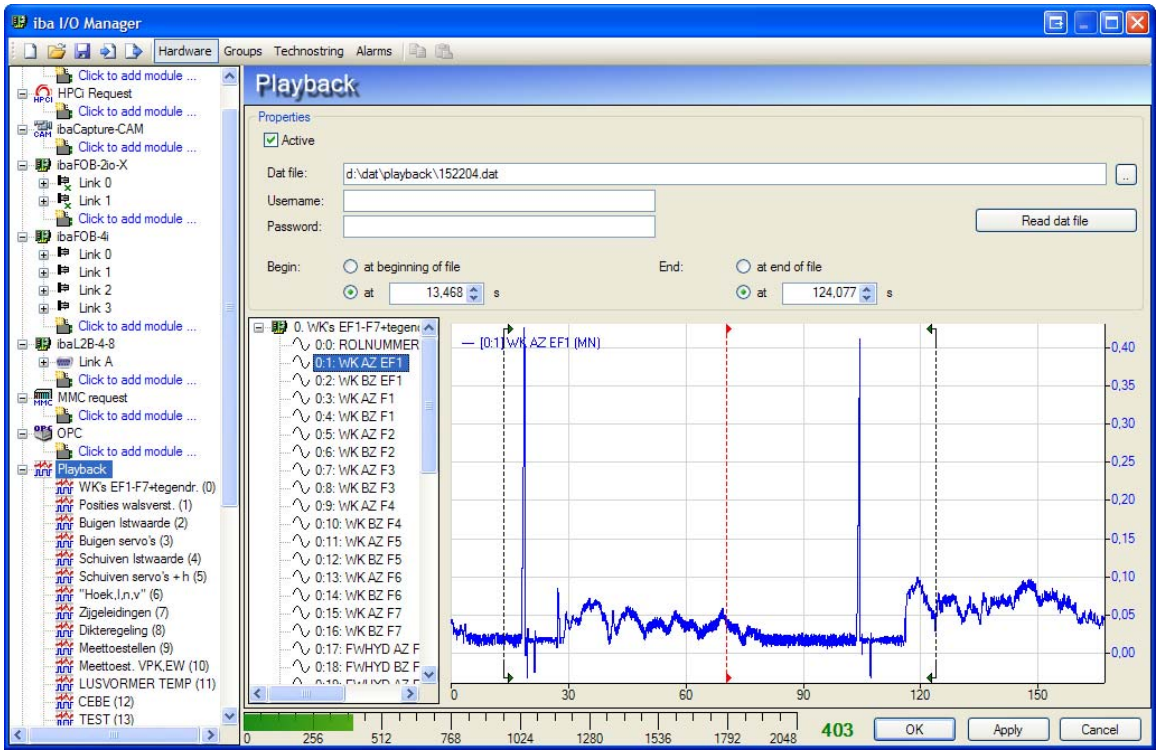
New features in ibaPDA v6.18.0

1 MMC request interface

See separate document

2 Playback interface

The playback interface can be used to playback a dat file. You have to enter the name of the dat file and press the read dat file button. This will instruct the server to read the dat file and create the modules and signals that are present in the dat file. The playback interface skips signals that are lengthbased and signals that have a 3 level number like [0.0.0] (e.g. dig512 modules or QDR dat files). If a module number is already in use by a non-playback module then the playback module is renumbered.



By default ibaPDA will playback the file from start to finish continuously. You can change the start and stop position by dragging the start and stop marker or by entering the start and stop position in the spinners.

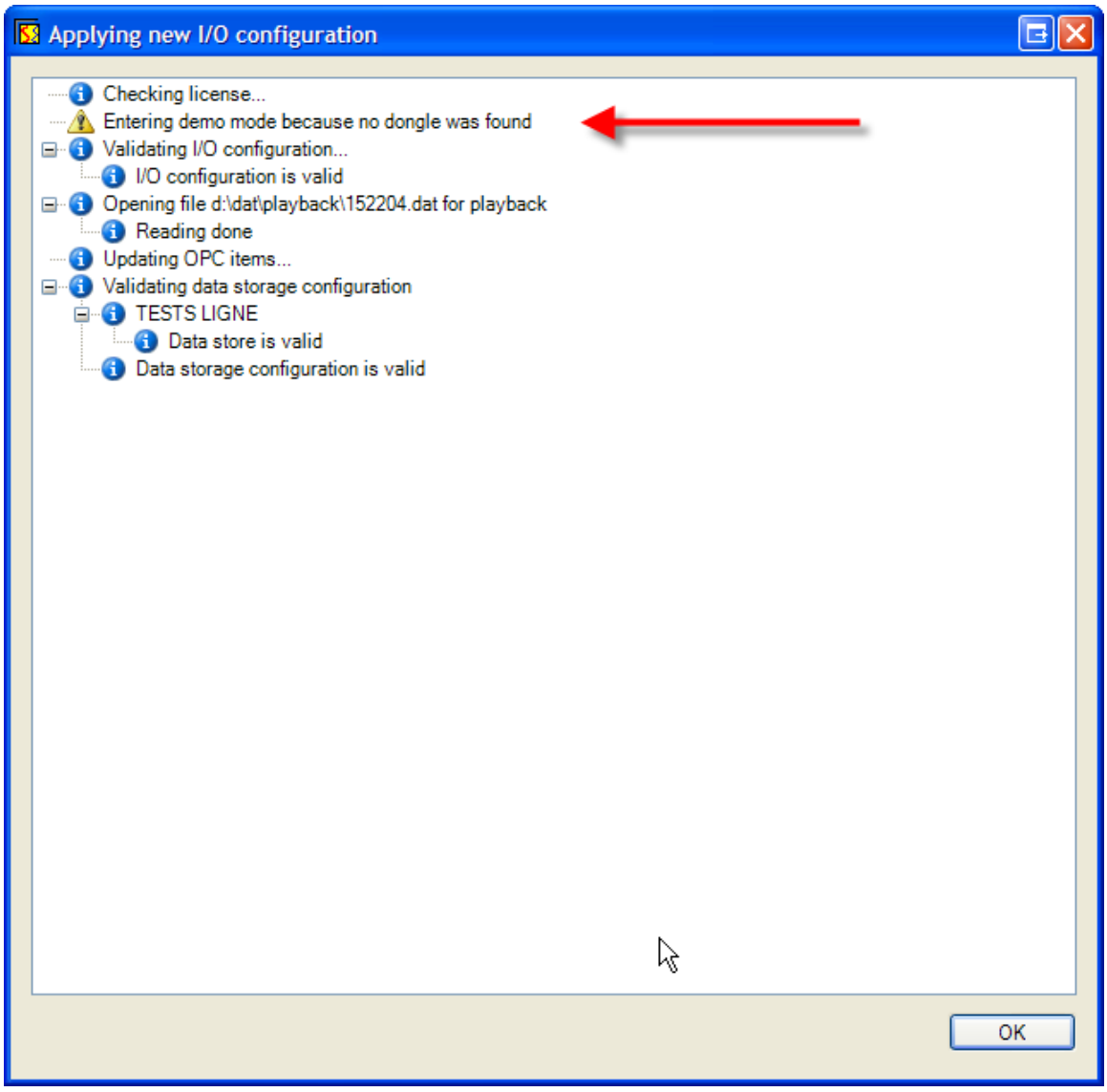
When the acquisition is running a third marker appears on the graph. This is the red progress marker. It is positioned on the current time.

You can change all the properties and signals of the playback modules like with all other modules. When you press the read dat file button again ibaPDA will ask if you want to replace the current modules or not. If you choose to replace the modules then all your changes will be lost.

The playback interface is always available. It works in the demo mode without dongle (see next point).

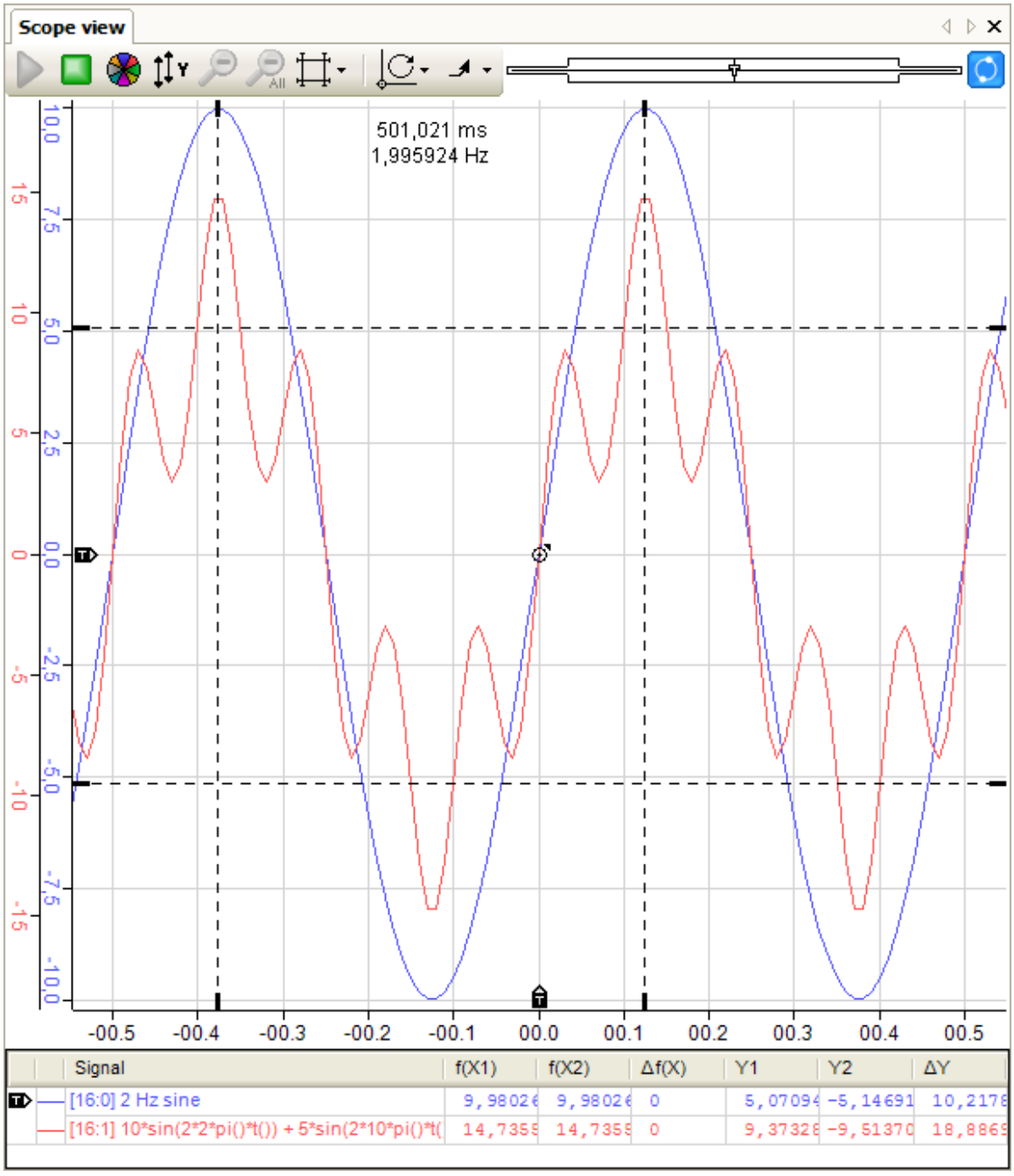
3 Demo mode

ibaPDA now supports a demo mode. When ibaPDA doesn't find a dongle it enters the demo mode. In demo mode only 2 interfaces are allowed: playback and virtual. There are maximum 1024 signals allowed. There are 2 datastores allowed.



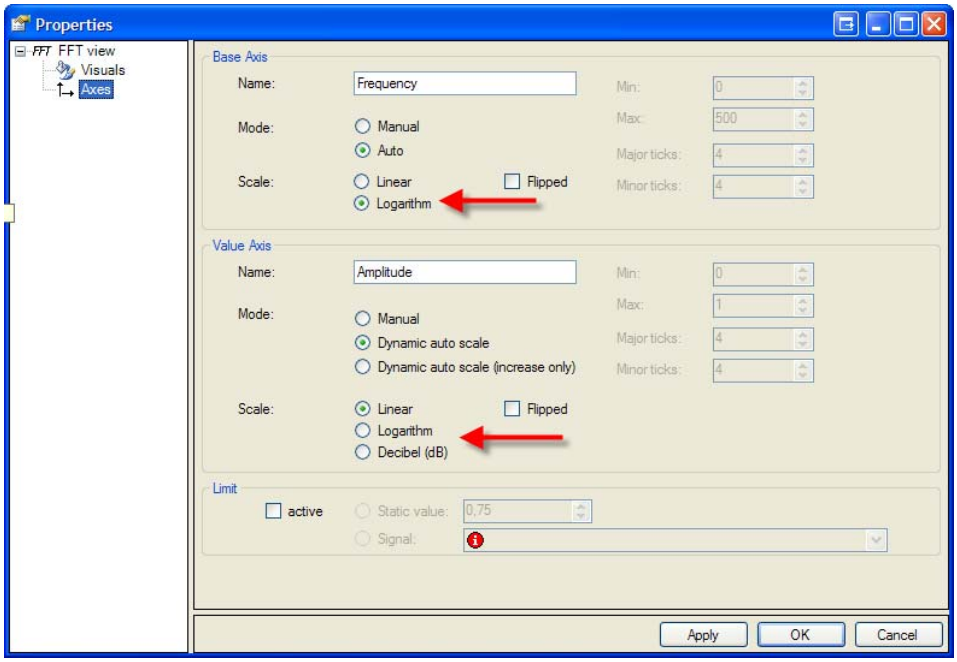
4 Oscilloscope

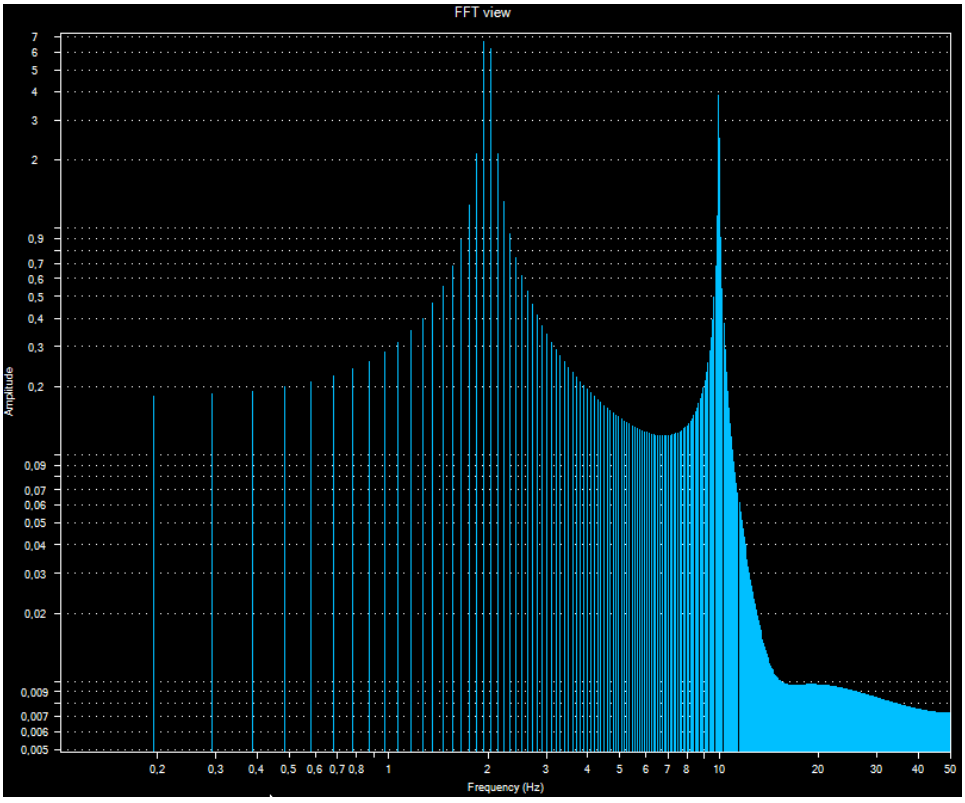
The oscilloscope has been rewritten from scratch. There is a separate document that describes this view.



5 Logarithmic scale in FFT view

The FFT view now supports logarithmic scale on both the X-axis and the Y-axis. On the Y-axis you can also choose a dB scale.

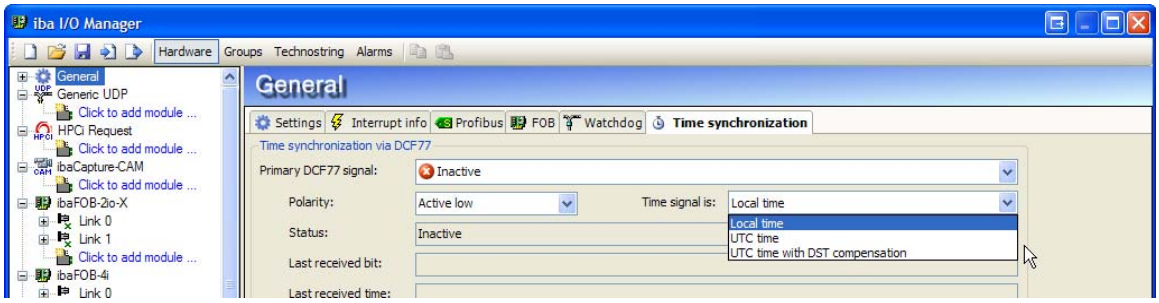




6 Time synchronization

6.1 DCF77 daylight savings time

The time synchronization via DCF77 has a new mode for the time signal: UTC time with DST compensation. DST stands for daylight savings time. In this mode pda will convert the time from UTC to local like in the normal UTC time mode. If the summer time bit is set in the DCF77 message then pda will subtract 1 hour to compensate the daylight savings time. In all other modes the summer time bit is ignored.



6.2 TimeSyncStatus

The TimeSyncStatus function can be used to monitor the status of a time source. The function looks like this:

```
TimeSyncStatus('source')
```

The source parameter can have 5 possible values:

- 0: DCF77 source 1
- 1: DCF77 source 2
- 2: IEC1131 source
- 3: DGM200P time source (can only be used with HPCi request via DGM200P)
- -1: the currently active time source

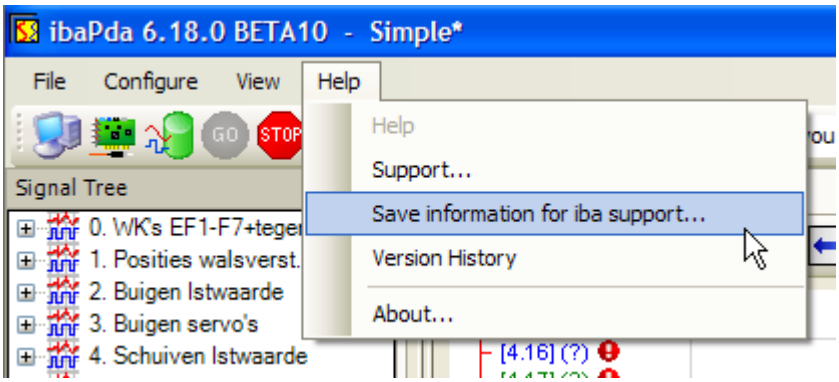
This function can return 3 possible values:

- 0: source is not active
- 1: source is active and valid
- 2: source is active but not valid

6.3 TimeSinceLastSync

The TimeSinceLastSync function returns the time in seconds since the last time synchronization. If there hasn't been a time synchronization then the function returns -1.

7 Support zip file



There is a new menu command in the help menu of the client: “Save information for iba support”. This command will create a zip file that contains the following things:

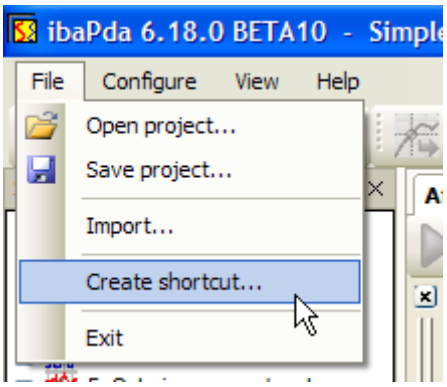
- The current project including the current layout
- The complete log directory of the server
- System information about the server

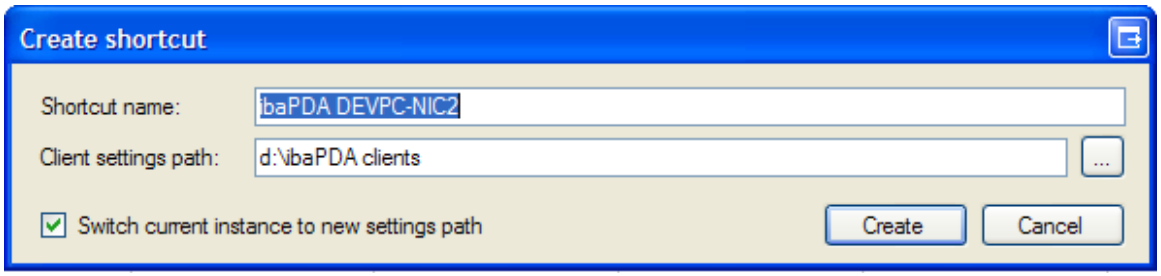
Via this menu command the customer can collect all the required support information with just 1 click.

8 Client shortcuts

The ibaPDA client can be started with a /config command line switch since version 6.6.0. This feature can be used to have multiple clients running on the same pc. The different clients can connect to different servers and they can all have different layouts. The /config switch requires a configuration file. The configuration file contains the server that the client connects to and the initial position and size of the client window. The directory that the configuration file is in will serve as the base directory for the client files (layout file, log files, addressbooks, …).

In ibaPDA version 6.18.0 there is a new menu command “Create shortcut”. This menu command makes it very easy to create a shortcut for a particular instance of the pda client on the desktop.





In the create shortcut dialog you have to enter the shortcut name. By default this is ibaPDA followed by the name of the currently connected server. The client settings path is the base directory for the client files that will correspond with the shortcut. With the settings from the screenshot ibaPDA will create a directory called d:\ibaPDA clients\ibaPDA DEVPC-NIC2. In this directory ibaPDA will create a configuration file and the current layout file. It will then create a shortcut on the desktop with name ibaPDA DEVPC-NIC2 that points to ibaPda.exe /config:”d:\ibaPDA clients\ibaPDA DEVPC-NIC2\ibaPdaClient.cfg”.

If the checkbox is checked then ibaPda will switch its current directory to the new shortcut directory. So all changes to the layout and server connection will then be saved in the shortcut directory. ibaPda will act like it was started via the shortcut. If you don’t check the checkbox then ibaPda will not change its current directory and everything will remain as before.