

Getting Started with BESA Research

The Sentinel HASP dongle System

BESA Research is protected with a network Sentinel HASP protection key so called **HASP dongle**. BESA Research will not run unless a HASP dongle with valid license information is connected to a USB port of a computer in your local area network. The license management in your network is managed by the Sentinel HASP Run-time Environment.

The Sentinel HASP Run-time Environment is automatically installed with the BESA Research installation. For a manual installation run the **HASPUserSetup.exe** file located in the **Utilities\License\System** subfolder of your BESA Research installation directory.

After installing BESA Research, your system is ready for use. Optional specific settings can be performed as described below. For example, by default every computer in your local network can access the license on the HASP dongle that is attached to your local computer. To change that, please find more information in the next chapter below.

Individual license settings: The Sentinel Admin Control Center (ACC)

The Sentinel HASP Run-time Environment includes the HASP device drivers and the **Sentinel Admin Control Center (ACC)**. ACC is a customizable, web-based, end-user utility that enables centralized administration of HASP license managers and Sentinel HASP protection keys. ACC can be used to monitor licenses and sessions when a protected application is operating, and to manage detachable licenses. To run the ACC please type the following address in your internet browser (internet connection is not required): <http://localhost:1947>.

The following administrative options are available:

The **Sentinel Keys** page shows which HASP dongles are currently present in the network, including locally connected HASP dongles.

The **Products** page lists all BESA products available on all accessible HASP dongles in the network (this includes not only BESA Research, but e.g. also possibly licenses for BESA MRI, BESA Statistics and BESA Epilepsy).

The **Features** page lists all BESA program components (called **Features** in the Sentinel HASP system) that are licensed in each of the HASP dongles that are currently present in the network, including locally connected HASP dongles. In addition you can see the conditions of the license, and the current activity related to each Feature.

The **Sessions** page lists all sessions of clients on the local machine, and of clients remotely logged in to the local machine. This page enables you to view session data and to delete sessions.

The **Configuration** page enables you to specify basic settings. On this page you can also configure access to or from other computers. For example, to specify that the license on the local HASP dongle can be used only locally on that computer, switch to **Access from Remote Clients** tab and remove the checkmark in the **Allow Access from Remote Clients** box.

The MATLAB interface of BESA Research

BESA Research 6.0 features a direct interface to MATLAB. During program installation, you will be asked which MATLAB version is installed on your computer, so that the interface gets configured correctly.

Note: For MATLAB versions 2009b and higher, you may need to modify your PATH environment variable on your computer. A detailed instruction is given in the BESA Research program help ([Help → Help Topics → Chapter MATLAB/Configuration](#)).

More information on the MATLAB interface and its features is provided by the following resources:

- **BESA Research program help** chapter MATLAB contains information on how the MATLAB interface works, how it can be configured, and what kind of data can be exchanged.
- **BESA Research Tutorial 3** (Batch Scripts, Multiple Subjects & Conditions, and the MATLAB interface) shows how to employ the MATLAB interface to perform cross-subject statistical analysis in MATLAB on source waveforms computed in BESA Research using batch scripts.
- The website <http://www.besa.de> provides sample MATLAB scripts and more information on toolboxes that can utilize the MATLAB interface of BESA Research.

The BESA Research folder structure

BESA Research generates the following default directories on your computer:

- The **installation folder** contains the executable programs of BESA Research. During installation, you can specify the location of the installation folder. The default is the **BESA\Research_6_0** subfolder of your default **Program Files** folder.
- **Example data, montages, scripts** and the **BESA Research initialization file BESA.ini** are located in the **BESA\Research_6_0** subfolder of the **Public Documents** folder. The default location of the Public Documents folder for the different operating systems:
 - Windows 7: C:\Users\Public\Documents\ (directly accessible from the Windows Explorer under Libraries\Documents\Public Documents\)
 - Windows Vista: C:\Users\Public\Public Documents\ (directly accessible from the Windows Explorer under Desktop\Public\Public Documents\)
 - Windows XP: C:\Documents and Settings\All Users\Documents\ (directly accessible from the Windows Explorer under My Computer\Shared Documents\)
 - Windows 2000: C:\Documents and Settings\All Users\Documents\
- The **BESA Research database** and **individual settings** are stored in **BESA\Research_6_0** subfolder of the **My Documents** folder.

You can change the above default locations by modifying the initialization file **BESA.ini**. Please refer to the BESA Research Help chapter in the program help ([Help → Help Topics → Chapter Special Topics → The initialization file: BESA.ini](#)).

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Tutorials and help

For an introduction on how to use BESA Research, please refer to the following sources:

- **BESA Research Tutorials:** These tutorials provide hands-on step-by-step examples on specific types of data analysis. The tutorials use the BESA Research example data that is installed with the software. In addition to the material provided in this package, please also refer to our website www.besa.de. In the **Tutorials** section, tutorial material is available as **.pdf** download.
- **BESA Program Help:** All features of BESA Research are described in the program help. It can be started from the menu item **Help → Help Topics**.
- **BESA Research Support:** If you have any program-related questions that are not answered by the material mentioned above, please send us an email through our web-interface here: <http://besa.de/contact/support/form.php>.