

## Installing and configuring an ArtemiS'Net(+) dongle

### Introduction

Using ArtemiS'Net(+) offers maximum flexibility for accessing your ArtemiS licenses. This Application Note explains how to install and configure your network dongle.

In order to use the network dongle, the installations described in the section "Required Software Installations" must be performed on the computer the dongle is physically connected to (called the "license server" in the following) and on the computers ArtemiS is to be used on (called "client computers" or "clients" in the following). The server can be any computer in the network the client computers are connected to. However, it must be ensured that this computer is running as soon as a client requires a license. Unlike local ArtemiS licenses and ArtemiS'Net licenses, ArtemiS'Net(+) licenses are not stored on the dongle, but on the hard disk of the license server. After installing the ArtemiS'Net(+) licenses on a specific computer, only this computer, in connection with the corresponding ArtemiS'Net(+) dongle, can provide the licenses to clients. After installing the licenses, it is not possible to use a different computer as the license server by connecting the dongle to it. This stationary installation of the licenses on a specific computer allows users to "borrow" (detach) licenses for computers not connected to the network with the license server, e.g. for measurements in the interior of a moving vehicle.

### Required software installations

#### Installations on the license server

First the dongle driver must be installed. Usually the dongle driver is installed along with ArtemiS. However, the driver can also be installed separately on a computer without installing ArtemiS. This can be the case, for example, if the license server is only used for hosting the network dongle, but not for performing analyses with ArtemiS locally. In this case it makes sense to install only the dongle driver on the server computer, but not the entire ArtemiS software package. The installation file for the dongle driver can be found, for example, on the HEADLicense CD (via the "HASPUser Setup" link).

The next component to be installed is the HEADNet+Prepare Setup, which can be found on the HEADLicense CD as well. After the successful installation of this setup, click on the link "HEAD Remote Update System.exe" to create a c2v file, which must then be sent to the following e-mail address: [license-management@head-acoustics.de](mailto:license-management@head-acoustics.de). Please note that the ArtemiS'Net(+) dongle must not be connected to the computer while this file is created. Based on your c2v file, HEAD acoustics will create a v2c file specifically for your license server, which contains all required information about your ArtemiS'Net(+) licenses. After receiving this file from us, you must install it on the license server. Via the "Update System" link on the HEADLicense CD, you can open the tool required for this installation. On the second tab ("Apply License Update"), you can select the v2c file and start the update. Afterwards, connect your ArtemiS'Net(+) dongle to your license

server. Now your ArtemiS licenses are available in the network as long as the license server is running.

### Installations on the client computers

On each client computer, ArtemiS and the desired additional tools (such as the HEAD Data Portal or the HEAD Recorder) must be installed. This procedure also installs the dongle driver and the "Detach licenses" tool.

## Admin Control Center

Entering the URL <http://localhost:1947> in a web browser opens the user interface of the Admin Control Center.

The left column of this user interface lists the "Administration Options". These include a "Help" item, which opens the online help for using and configuring the dongle. In addition to this online help, the ArtemiS-specific procedures and the usage of the "Detach licenses" tool are also described in this Application Note.

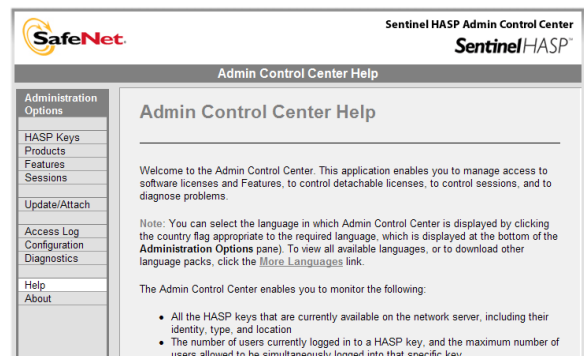


Figure 1: Admin Control Center

## Configuring the ArtemiS'Net(+) dongle

To configure the ArtemiS'Net(+) dongle, open the Admin Control Center in a web browser on the license server (URL: <http://localhost:1947><sup>1</sup>) and click on "Configuration" in the "Administration Options".

This opens the configuration menu containing five tabs, on which various settings for the dongle can be configured. For example, on the "Basic Settings" tab, you can enable password protection in order to restrict access to the Admin Control Center to authorized persons.

The "Access from Remote Clients" tab can be used to specify the computers in the network that are allowed to access the licenses on the network dongle. By default, all computers in the network are allowed to access licenses (see figure 2, "allow=all").

<sup>1</sup> It is also possible to access the Admin Control Center of the ArtemiS'Net(+) dongle from other computers within the network. To do so, replace the URL <http://localhost:1947> to be entered in the web browser by the following <http://{IP address of the license server}:1947>.

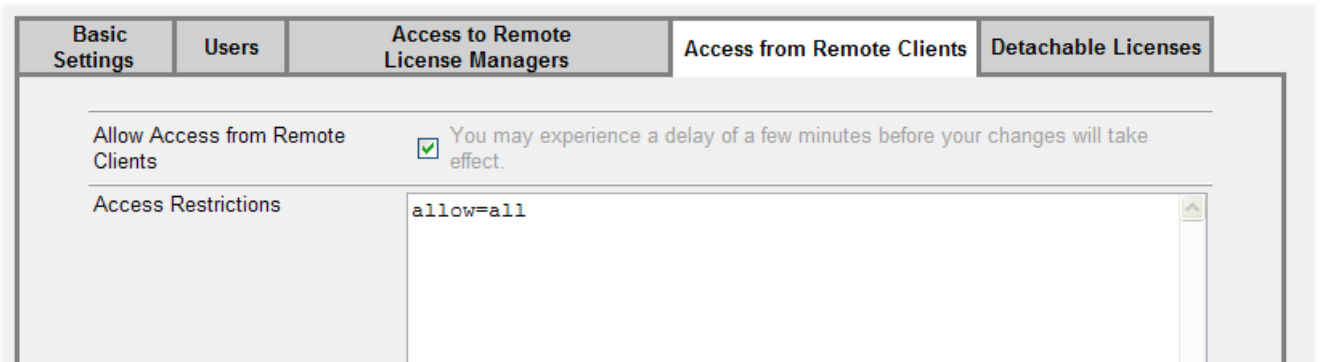


Figure 2: Configuration menu for the ArtemiS'Net(+) dongle, "Access from Remote Clients" tab

You can also generally deny access for all computers ("deny=all") and specify exceptions for certain computers only. This can be conveniently done via the "Show Recent Client Access" button. It opens a table with computer names with an "allow" button and a "deny" button for each computer. The exceptions can be conveniently chosen via these buttons. See the online help for a detailed description of the configuration syntax. It can be useful to disable the option "Allow Access from Remote Clients" as long as the table of recent clients is being used for this selection, as otherwise the table will be updated constantly, which causes the order in which the computers are listed to change frequently. This can complicate the selection, especially if many computers exist in the network.

Figure 3 shows the "Detachable Licenses" tab. On this tab, you can specify whether other computers can "borrow" (detach) licenses from your network dongle in order to use them when the client computer is not connected to the network.

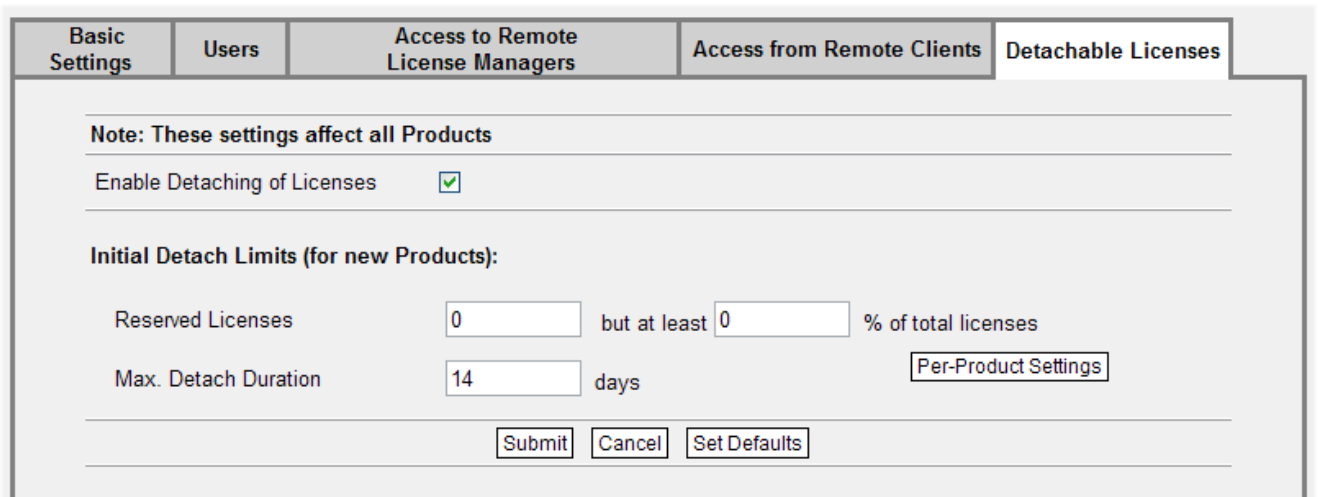


Figure 3: Configuration menu for the ArtemiS'Net(+) dongle, "Detachable Licenses" tab

Here you can also specify the maximum number of licenses that can be detached and the maximum detach period. Please note that all configuration changes must be confirmed with "Submit" in order to become effective.

The configuration possibilities described here are only a selection. These and all other settings are explained in detail in the online help of the Admin Control Center.

Once the configuration changes are completed, the licenses of the network dongle can be used by the authorized users and computers as soon as they are connected to the network.

In order to use the license detach function, this function must be enabled on the respective client computer. To do so, proceed in the same way as for enabling the function on the license server: Enter the URL <http://localhost:1947> in a web browser on the client computer to open the Admin Control Center, click on the "Configuration" link and then on the "Detachable Licenses" tab. Enable the detach function by clicking on the checkbox "Enable Detaching of Licenses" and on the "Submit" button. If you have borrowed an ArtemiS license from the license server and you want to start it on a client computer that is no longer connected to the network with the license server, you need one of the black Time Dongles<sup>2</sup>, which must be connected to a USB port of the client computer. To borrow and return ArtemiS licenses on a client computer, you can use the "Detach licenses" tool from HEAD acoustics. The following section describes how to use this tool.

### Detaching ArtemiS'Net(+) licenses with the "Detach licenses" tool

After configuring the ArtemiS'Net(+) dongle so that detaching of licenses is allowed, you can use the "Detach licenses" tool from HEAD acoustics to initiate the detaching from the client computer. To open the "Detach licenses" tool, click on "Start -> Program Files -> HEAD Gallery -> Utilities and Tools -> License Detach". Please make sure that your computer is connected to the license server via the network.

This tool offers the possibility to borrow the required licenses from the license server ("Detach" button), to return detached licenses to the license server ("Cancel" button) and to install licenses borrowed by another computer on your own computer ("Attach" button, see figure 4).

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<sup>2</sup> These black Time Dongles are included with your ArtemiS'Net(+) dongle.

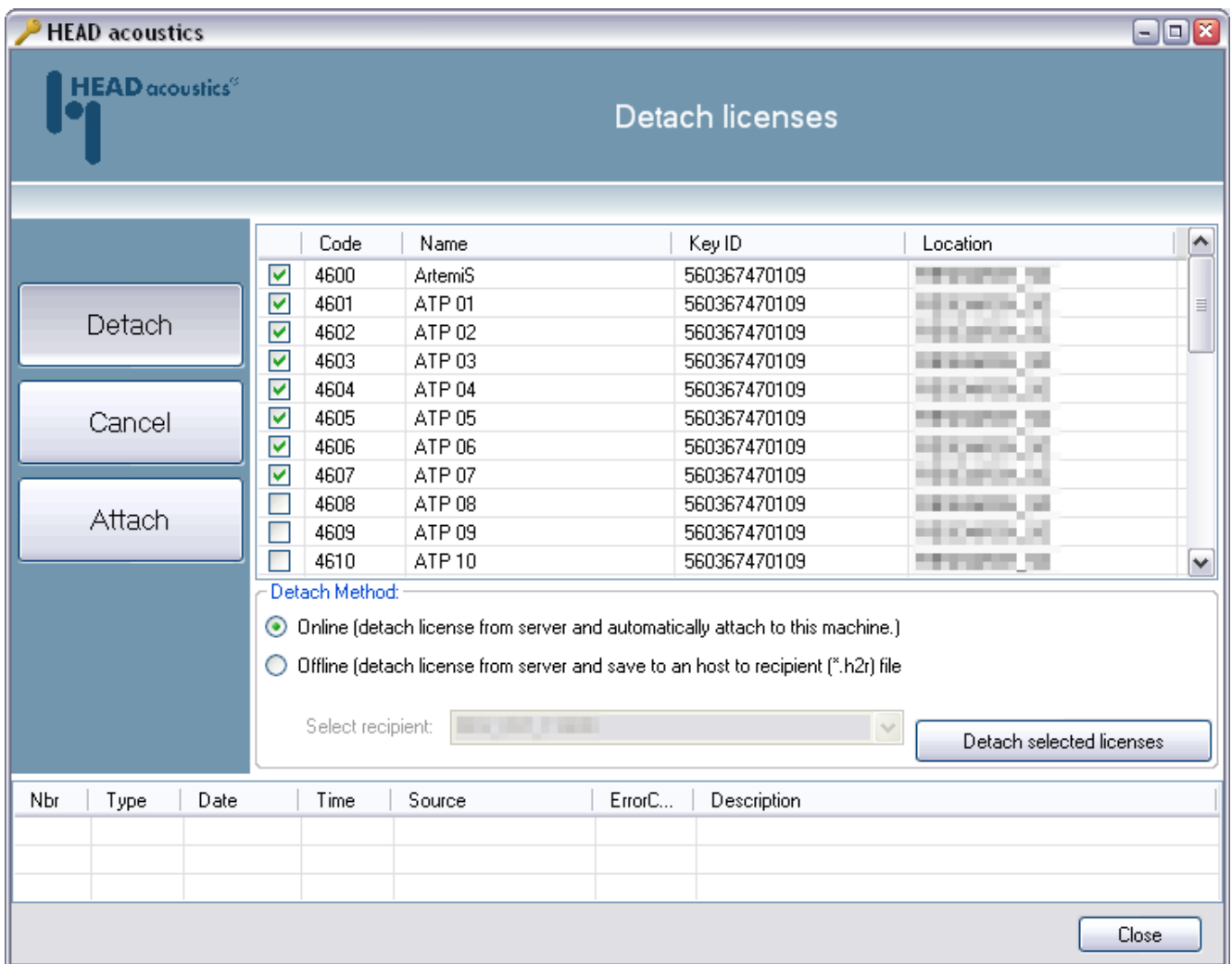


Figure 4: User interface of the “Detach licenses” tool

Once you click on the “Detach” button, a table appears, which lists the licenses available for detaching. Detaching licenses can happen in two different ways:

The first method detaches licenses for the computer you are currently using, which must be connected to the license server via the network (“Detach Method: Online”). Use this method if the licenses are to be used on the currently used client computer. Check the required licenses in the first column of the table and click on the “Detach selected licenses” button. A dialog appears, where you can enter the date until which you wish to use the licenses – restricted by the time limit specified in the dongle configuration. Afterwards, you can use the licenses until the date you specified, even when your computer is no longer connected to the network with the license server, provided that you have connected one of the black Time Dongles included with your ArtemiS'Net(+) dongle to a USB port of your client computer.

Using the other method (“Detach Method: Offline”) allows you to borrow licenses for another computer that is currently not connected to the network with the license server (offline). After enabling the “Offline” method, select the computer for which you wish to borrow the licenses from the list at the bottom of the window and click on the “Detach selected licenses” button. After-

wards you can specify the time period for which the licenses are to be detached. Furthermore, you need to specify a location for saving the license file with the extension ".h2r". This file can then be sent or copied to the offline computer in order to be installed there. To install this license file, start the "Detach licenses" tool on the offline computer and click on "Attach". In the first line of the user interface, select the location of the license files, after which the borrowed licenses are listed in the table and can be installed on the computer by clicking on the "Attach selected updates" button.

In order to be included in the list of computers for which a license file can be created, an offline computer must have been connected to the network with the license server once. If this is not the case, an ID file with information about the offline computer can be created in the Admin Control Center on the offline computer via the "Diagnostics" link. This file ensures that the license server knows the offline computer and includes it in the "Select recipient" list. To install the ID file on the license server, open the "Update/Attach" page in the Admin Control Center on the license server, open the ID file copied from the offline computer and click on "Apply File" (see figure 5).

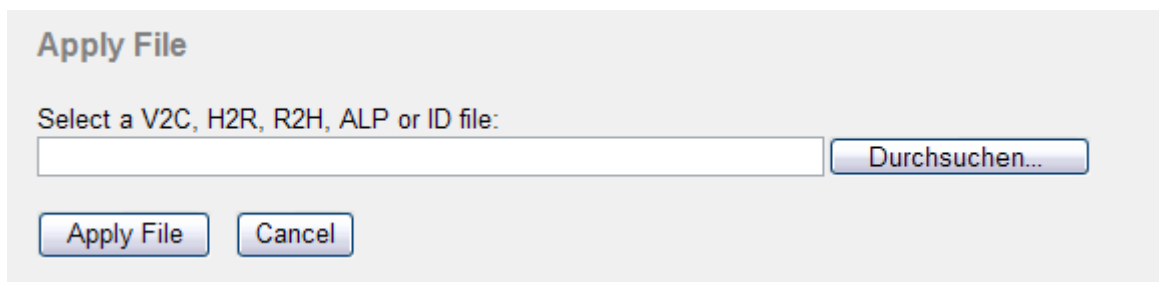


Figure 5: User interface of the Admin Control Center, "Update/Attach" page

Now the license server has all required information about the offline computer, so that licenses can now be detached for this computer as well.

The "Detach licenses" tool not only allows you to detach licenses, but also to return them, e.g. if you wish to return the detached licenses before the end of the specified detach period in order to make them available to other ArtemiS users as early as possible.

Usually licenses are automatically booked back at the end of the detach period, after which they cannot be used on the client computer any longer. To return a license earlier, open the "Detach licenses" tool and click on the "Cancel" button.

In the table that is shown, select the licenses to be returned and click on the "Cancel selected licenses" button (see figure 6).

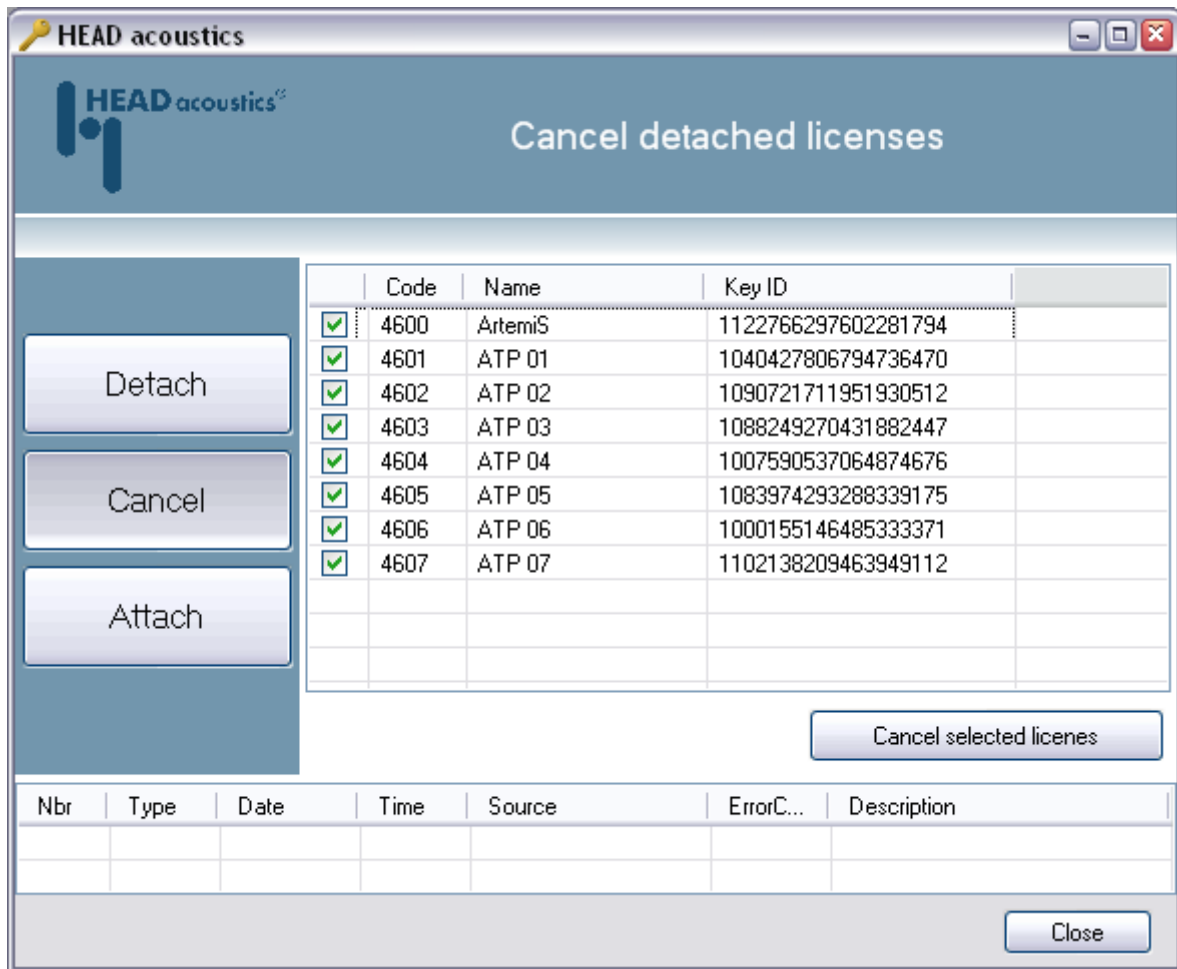


Figure 6: User interface of the "Detach licenses" tool, "Cancel detached licenses"

As soon as the licenses have been returned to the license server, they can be used by other computers. Licenses can also be returned when the client computer is offline, i.e. not connected to the network with the license server. In this case, the cancellation function creates a file with the extension ".r2h" containing the required information for the server.

Just as described for the ID file in the previous section, this file can be transferred to the license server. Afterwards, the returned licenses are available in the network of the license server again.

If you have any questions regarding the installation of your ArtemiS'Net(+) dongle, please contact us at the following e-mail: [nvh-support@HEAD-acoustics.de](mailto:nvh-support@HEAD-acoustics.de).