



HASP dongle Help File

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1 HASP hardware dongle

HASP hardware dongle

The HASP hardware dongle, is a piece of hardware that comes in various interface types USB, Parallel, PCI etc. and various hardware types HASP HL Pro, Max etc. This document deals only with HASP HL Pro USB, which is the version that we currently use.

1.1 Introduction

Introduction

Before any actions can be carried out with the dongle, the software that is part of the Development Kit must first be installed. This can be found on the Production drive of the NovaTec server, in the directory **HASP Dongle**. If there are any sections not described in detail in this document, **then do not use them**. They have been deliberately excluded, as they can result in destroying / invalidating the master dongle.

Note

When working with any of the HASP applications, the master dongle **must always** be connected to the PC!

Dongle hardware

The actual dongles are kept in the production department, under the control of Frau Bachmann. The PC developer has one dongle to test the NMS with. He also has the master dongle, which is required when creating a PC software release. PaHa has one dongle to test with.

Documentation

Any documentation is on the company network drive "doc" in the directory **NMS Dongles**.

Software

The software is under the control of Herr Keyhani (mike), and must be released from him to install.

Installation

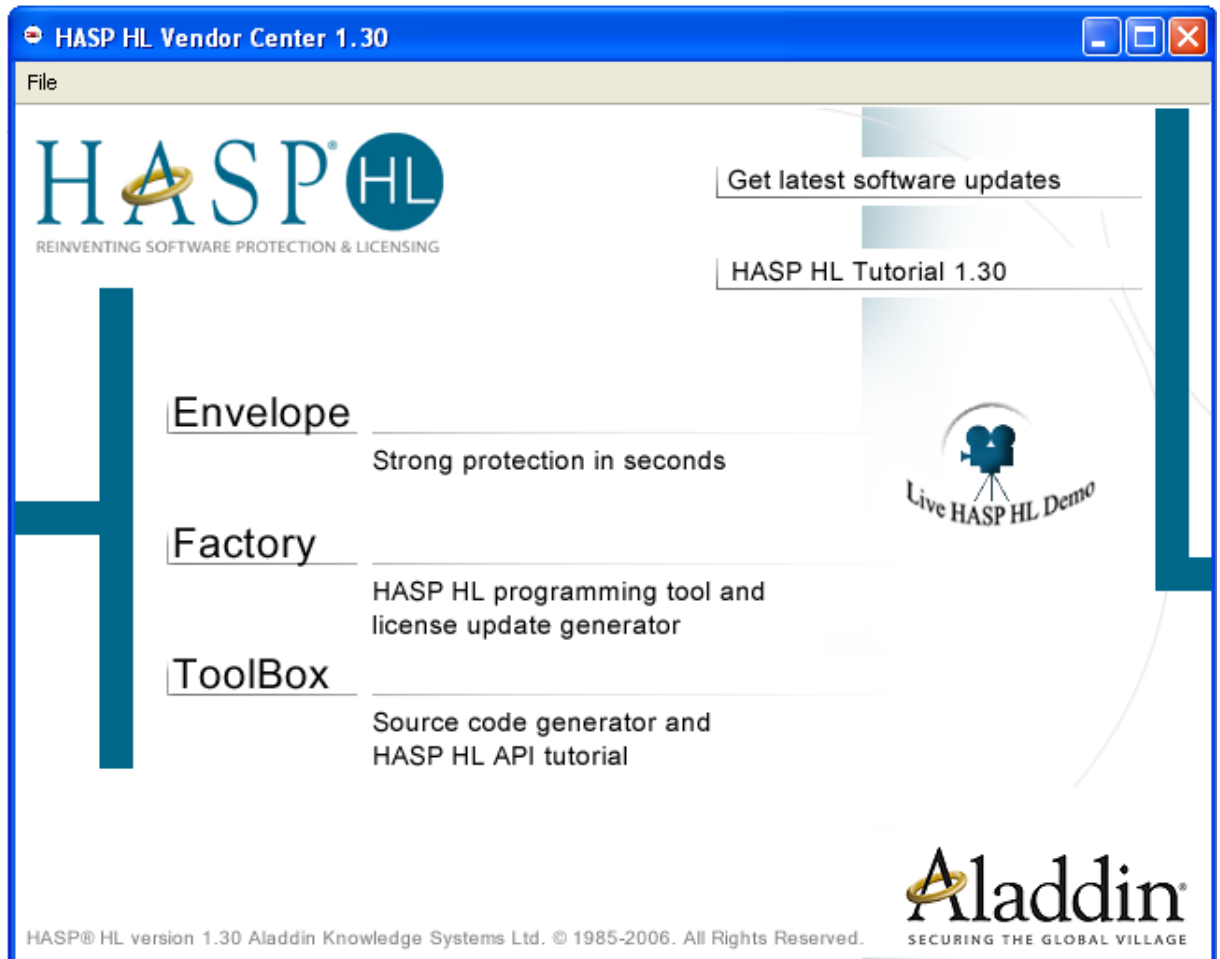
To install the Alladin software, insert the CD, navigate to the **Windows** directory, and start the application **setup.exe**. Follow the onscreen instructions to install the application(s). **Please use the standard directory structures suggested by the setup program!**

Once the applications have been installed, navigate to the network drive **doc**, navigate to the directory **NMS Dongles** and copy the file **Novatec.hvc** to your local hard drive in **Programme\Aladdin\HASP HL\VendorCodes**.

1.2 HASP HL Vendor Center

HASP HL Vendor Center

The HASP HL Vendor Center is the main application for dealing with programming the HASP dongles.



This application has three main sections:

Envelope

This is used to protect an application (in this case the NMS) with a generic dongle protection. This should only be carried out by the PC application developer.

Factory

This is used to create and write the license information to the HASP dongle.

ToolBox

This is used to test and write code using the HASP API. This should only be used by the PC application developer.

1.2.1 Envelope

Envelope

If you need help to work with the HASP Envelope, and you are looking here, then you should leave it alone, and contact someone who knows what they are doing.

1.2.2 Factory

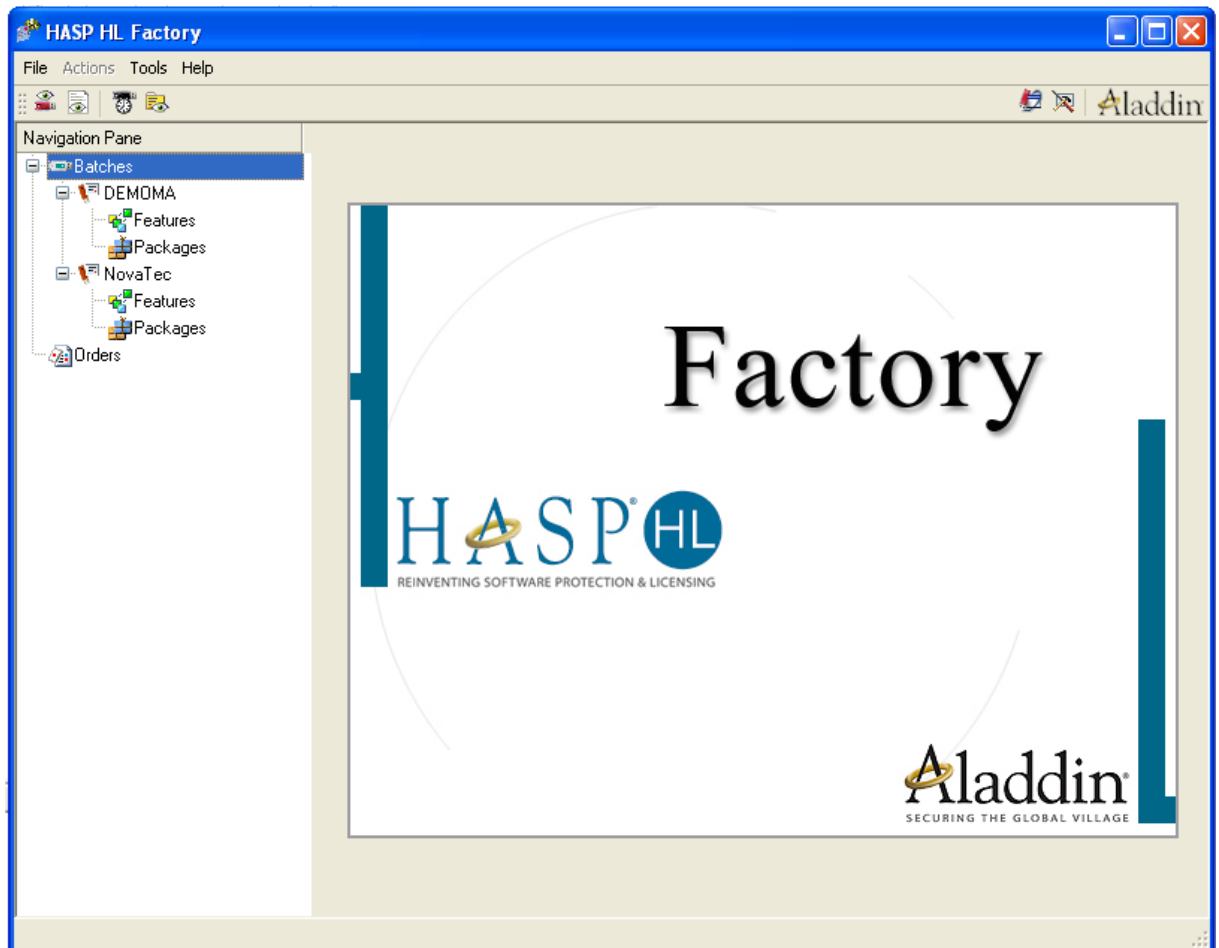
Factory

The HASP HL Factory application, is where the license information is written to a dongle, or used to create a remote upgrade file for an end user.



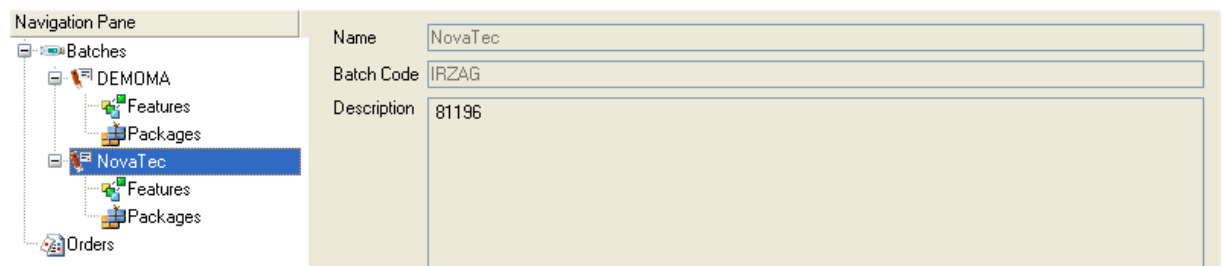
To use the application, the master dongle **must be** connected!
Click on the small '+' plus icon in the left hand pane, to expand all the batches.

Here the various batches are listed. The DEMOA batch does not concern the normal usage of this application, and is only for development and testing. The NovaTec batch is the batch that is to be used for writing the license information to the dongles for the NMS.



NovaTec

This is the batch configuration for the NovaTec HASP dongles.



Features

These are the available features for this batch.

Navigation Pane	Program Number	Name	Description
Batches	1	Standard feature	Standard feature. Required by all NovaTec applications.
DEMOA			
Features			
Packages			
NovaTec			
Features			
Packages			
Orders			

Packages

These are the available packages for this batch. As you can see, the packages correspond to the number of licenses that a dongle should have.

Navigation Pane	Name	Description	No. of Features	Memory Image Number
Batches	1 NMS License	Allows 1 instance of the NMS	1	1
DEMOA	2 NMS Licenses	Allows 2 instances of the NMS	1	1
Features	4 NMS Licenses	Allows 4 instances of the NMS	1	1
Packages	6 NMS Licenses	Allows 6 instances of the NMS	1	1
NovaTec	8 NMS Licenses	Allows 8 instances of the NMS	1	1
Features				
Packages				
Orders				

Orders

Here the orders are created to write to the dongles, or to created remote update files for dongles that are already at a customer site.

Navigation Pane	Batch	Batch Code	Name	Comment	Created	HASP ID	Target
Batches	NovaTec	IRZAG	Example order	An example order for the help	18.10.2006 17:51:29	Any	Connecte...
DEMOA							
Features							
Packages							
NovaTec							
Features							
Packages							
Orders							

For more information see the individual sections.

1.2.2.1 Batch

Batch

Batches are used in HASP HL Factory to define features, packages and to execute orders. A batch is always associated with one master dongle.

Name	NovaTec
Batch Code	IRZAG
Description	81196

Name

The name given for this batch.

Batch Code

This is the code, that the master dongle has.

Description

The default description created when the batch was created.

1.2.2.2 Features

Features

A feature is a functionality of a software application that can be independently controlled via a license. In the HASP HL system a feature can be an entire application, an executable file or a specific functionality. For the NMS system, there is only one feature defined, and only (at the moment) this feature is to be used.

Program Number ▲	Name	Description
1	Standard feature	Standard feature. Required by all NovaTec applications.

1.2.2.3 Packages

Packages

A package is any combination of the following elements:

- Features defined with particular licensing behavior.
- Data that is written to the memory of a HASP HL key.

Packages are defined in the HASP HL Factory application when licensing protected applications.

Together with features, packages are licensing elements used to facilitate the process of producing licenses for protected applications. HASP HL Factory enables you to define and manage packages. For the NMS, there are 5 packages defined.

Name ▲	Description	No. of Features	Memory Image Number
1 NMS License	Allows 1 instance of the NMS	1	1
2 NMS Licenses	Allows 2 instances of the NMS	1	1
4 NMS Licenses	Allows 4 instances of the NMS	1	1
6 NMS Licenses	Allows 6 instances of the NMS	1	1
8 NMS Licenses	Allows 8 instances of the NMS	1	1

Name

The name given to the feature.

Description

A description of the package.

No. of features

The number of features that have been assigned to this package.

Memory Image Number

The number of memory blocks that have been used in this package.

1 NMS License

Allows one instance of the NMS to be started.

2 NMS Licenses

Allows two instances of the NMS to be started.

4 NMS Licenses

Allows four instances of the NMS to be started.

6 NMS Licenses

Allows six instances of the NMS to be started.

8 NMS Licenses

Allows eight instances of the NMS to be started.

1.2.2.4 Orders

Orders

An order is licensing data that is transferred to a HASP HL key. Licensing data includes modification to the way protected features are controlled and modifications applied to the memory of a key. Orders in HASP HL Factory have three possible forms:

- Orders that can be applied to any HASP HL that meets your licensing requirements. These orders are applied to 'empty' license containers within HASP HL keys. When applying such orders, you initialize the connected keys.
- Orders that contain updates for specific HASP HL keys. If the keys are available you can use HASP HL Factory to apply the updates directly to the keys.
- Orders that contain updates for specific HASP HL keys. If the keys are available you can use HASP HL Factory to apply the updates directly to the keys.
- Orders that contain updates for specific HASP HL keys which are currently deployed and not available. These orders are applied via the HASP HL Remote Update System.

Orders are tracked in the internal HASP HL Factory database and are no longer displayed once they are executed.

Batch	Batch Code	Name	Comment ▲	Created	HASP ID	Target
NovaTec	IRZAG	Example order	An example order for the help	18.10.2006 17:51:29	Any	Connected ...

1.2.2.5 Creating a license

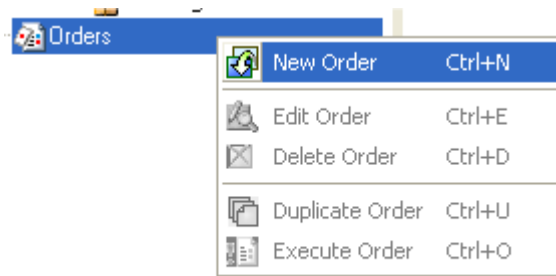
Creating a license

This is a step by step explanation of how to create a license on a dongle, for use by a customer. For the example, we will assume the following:

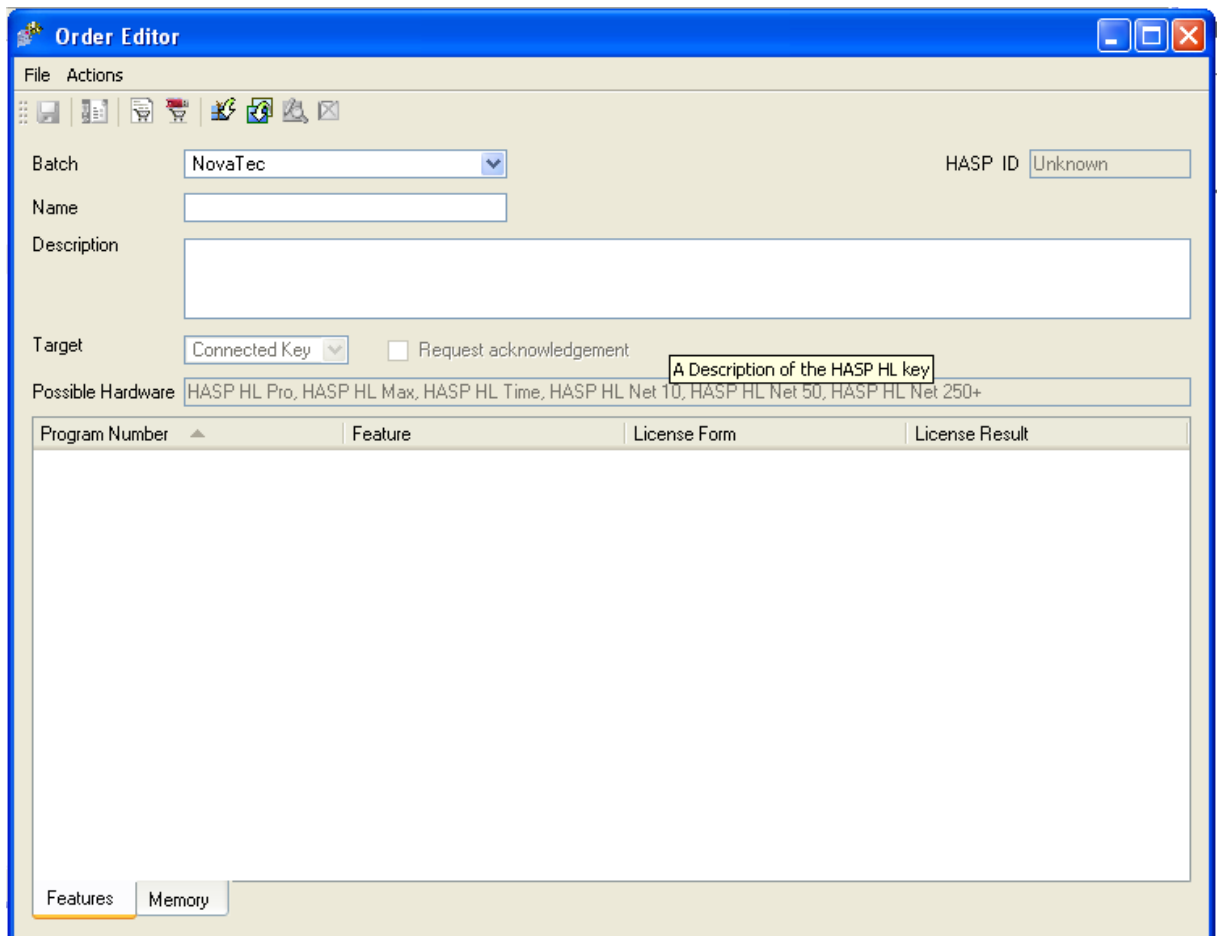
The customer requires 6 NMS licenses, 4 NMS instances running on one PC, 2 NMS instances running on another PC. This requires that we deliver two dongles.

The customer is not "upgrading" and therefore we have the dongles that are to be written two.

First we must create two "orders". Select **Orders** from the left hand pane, and click the **right** mouse button **in the right hand pane** and the following menu will appear

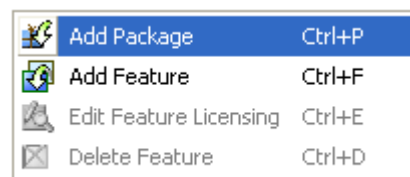


Select **New Order** from the menu and the Order Editor will be shown

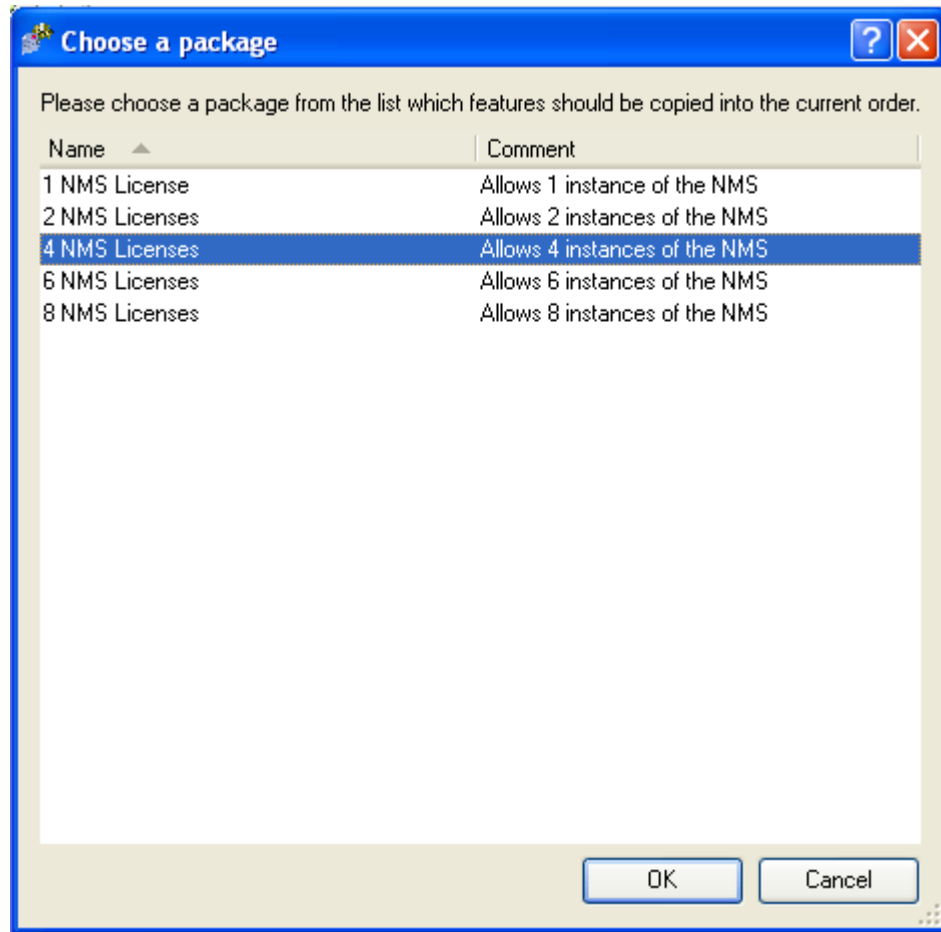


After clicking the right mouse button in the right hand pane, the dialog as shown above will appear. As we are creating license information for the NMS, leave the **Batch** setting as it is.

Enter a name for this order, for this example we will enter **4 Instance NMS**. As a description, we will enter **4 License NMS dongle**. Then, in the bottom window, click the **right** mouse button and the following menu will be shown:



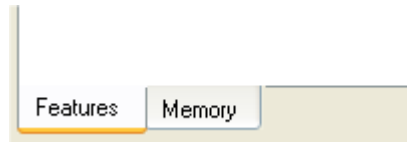
Choose Add Package and the Choose Package dialog will be shown.



From this dialog, choose 4 NMS licenses and click **OK**. The dialog will close and the Order Editor will reappear.

Program Number	Feature	License Form	License Result
1	Standard feature	Counter	Activations: Unlimited

As you can see, the Package **4 NMS Licenses** has been added to the Order. Click on the **Memory** tab at the bottom of the window

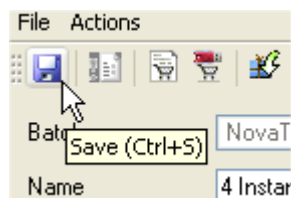


and the information that is to be written to the memory of the dongle will be shown

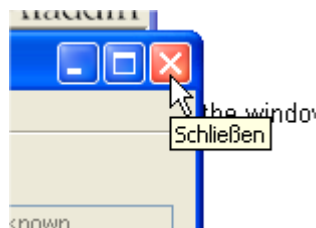
Length	<input type="text" value="32"/>												
	00	01	02	03	04	05	06	07	08	09	0A	0B	
0x00	2c	9f	bc	3e	dd	fc	2d	92	24	7c	39	c5	, .%>Ÿü-. \$ 9Ä
0x0C	57	3f	db	d8	8f	9f	3e	a0	26	72	29	07	W?ÜØ...> &x).
0x18	d4	51	48	62	0a	c3	fb	38					ÔQHb.Äû8

Do not change any of these settings!

Click the **Save** icon in the toolbar



and then the **Close** icon on the dialog

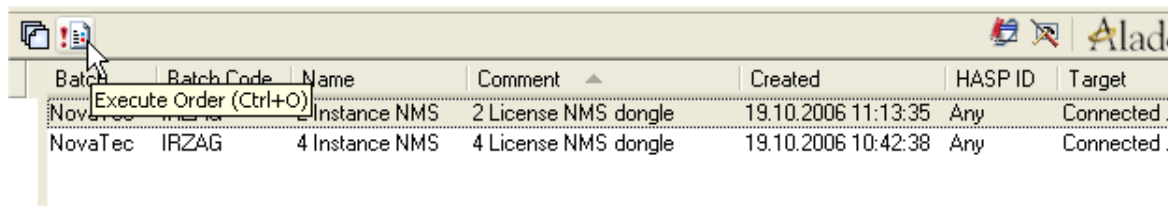


The main window will appear, and we can add the order for the two license NMS. To do this, carry out the steps explained above, but instead of adding the 4 NMS Licenses package, add the 2 NMS Licenses package.

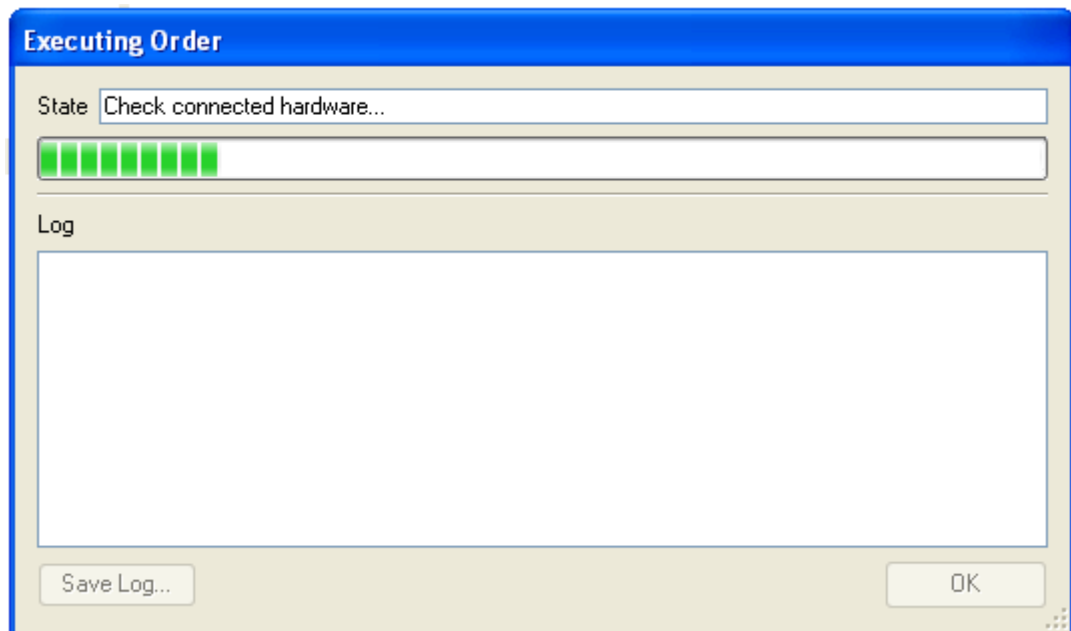
Now both orders are complete, and are ready to be carried out. The main window should now contain both orders as shown below.

Batch	Batch Code	Name	Comment ▲	Created	HASP ID	Target
NovaTec	IRZAG	2 Instance NMS	2 License NMS dongle	19.10.2006 11:13:35	Any	Connected
NovaTec	IRZAG	4 Instance NMS	4 License NMS dongle	19.10.2006 10:42:38	Any	Connected

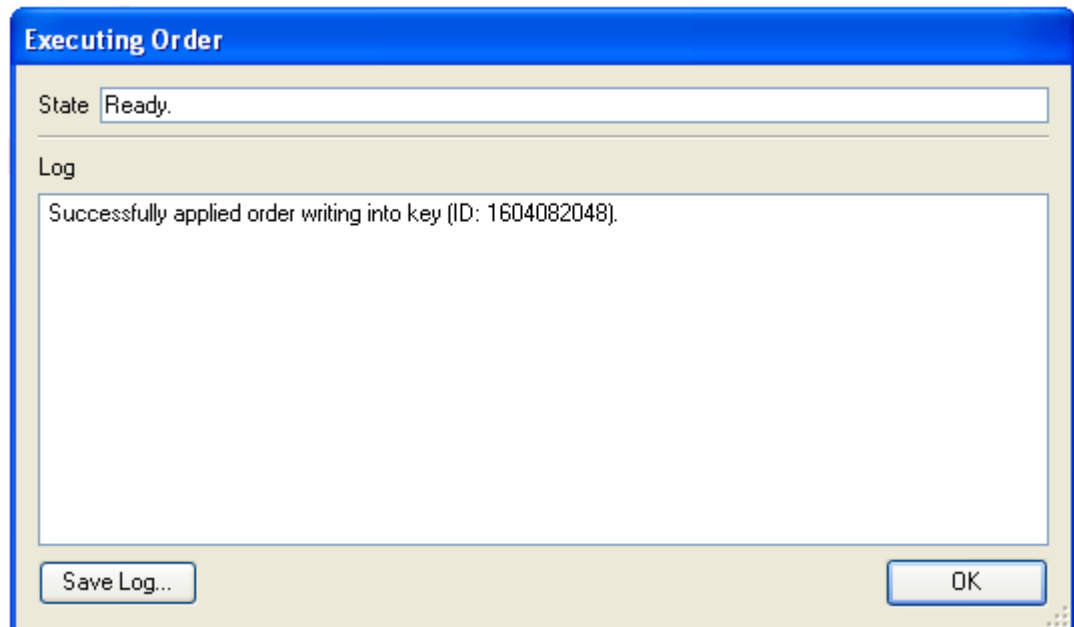
Now you must connect **one** hardware dongle to the PC, and make sure that the master dongle is also connected. Select the 2 Instance NMS order, and click the **Execute order** icon from the toolbar



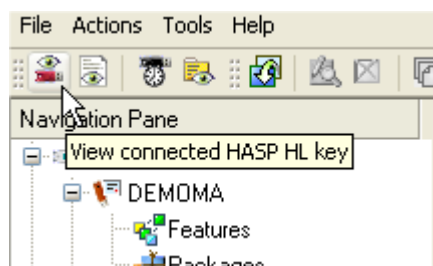
A dialog will appear showing the current status of the dongle writing process...



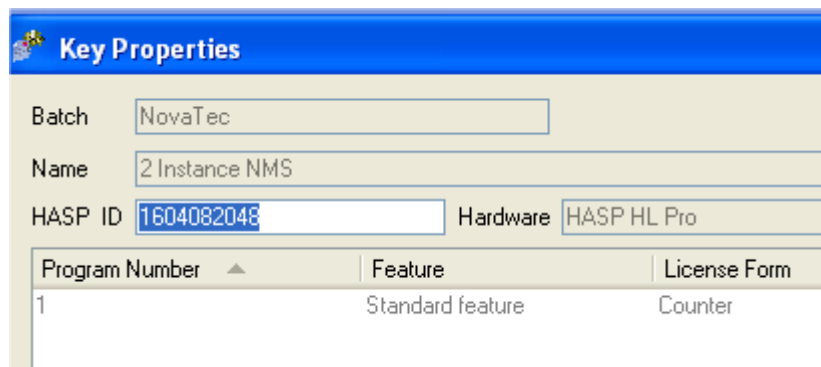
Once complete, a dialog like the one shown below will appear



Once the process is complete, click the **OK** button and from the main window click the View connected HASP HL key icon



The key properties dialog will be shown. Make a note of the HASP ID, as this must be entered into the Excel table, so that you can keep track of the dongle. It may also be prudent to enter this number in any billing information that the customer receives.



Once you have made a note of the HASP ID, close the dialog (clicking the **OK** button), remove the dongle, and carry out the steps explained above for the next dongle.

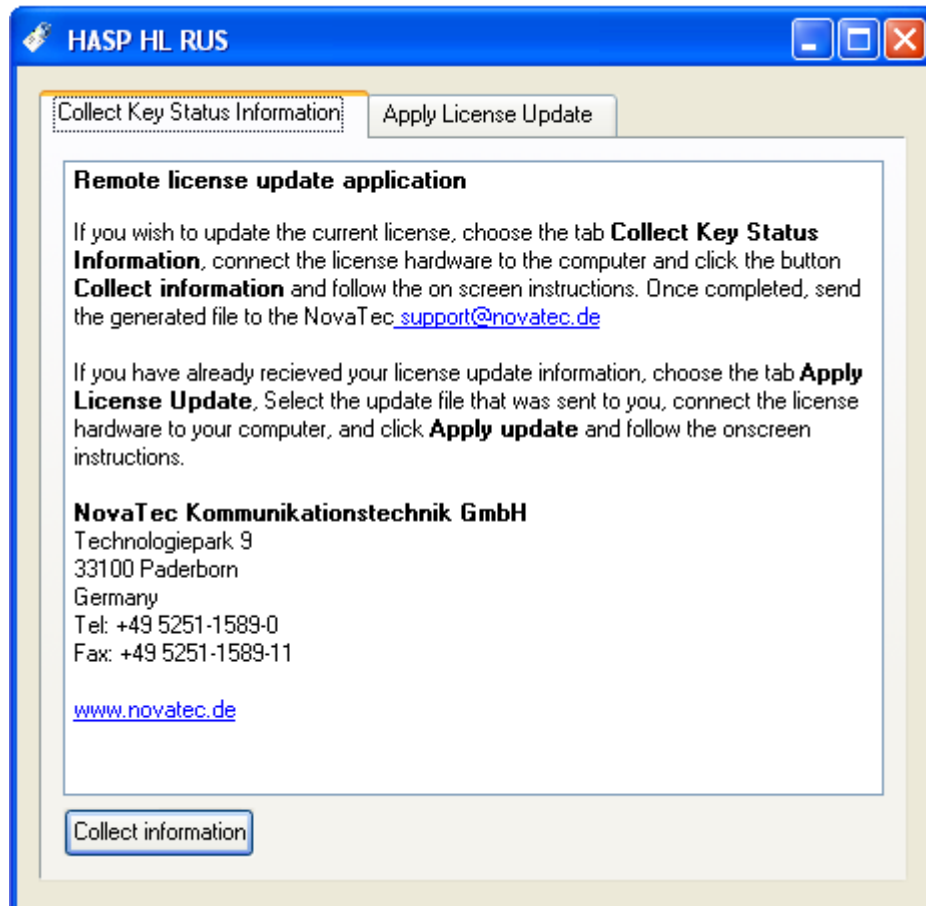
1.2.2.6 Remote update

Remote update

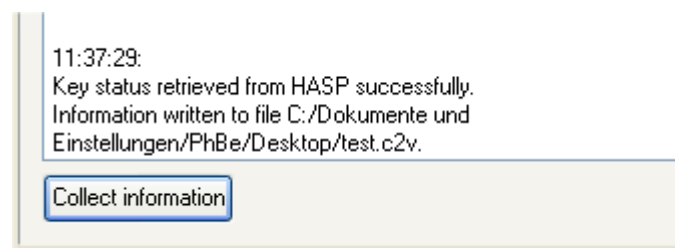
This is a step by step explanation of how to create a remote license to update a dongle that has already been delivered to a customer. For this example, we will assume that the customer wishes to upgrade a 2 NMS License to a 4 NMS License. As part of the NMS installation package, the remote update file **Novatec Remote License Update.exe** is installed in the same directory as the NMS software. The customer must start this software, on the **same machine on which the dongle is connected to**. He is to follow the instructions in the application, and send the file that this application creates to you, so that you can create a remote update for that customers dongle.

Customer actions

The customer must start the application **Novatec Remote License Update.exe** on the machine on which the dongle is connected to.

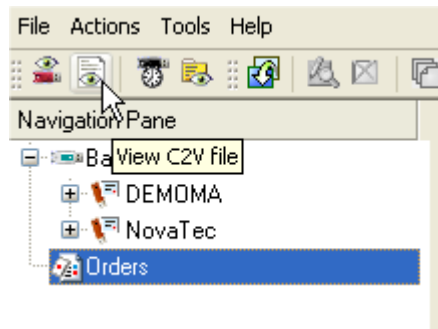


The customer should click the button **Collect information**, the customer will then be asked where the key status is to be saved. This key status, is the file that he must send to you, to receive a remote update. Once the key status has been saved, the dialog will show this...



Once the customer has sent this key status file to you, open the HASP HL Vendor Center, and choose the Factory application.

Once you have started the Factory application, choose the icon **View C3V file**.



Select the key status file that the customer has sent to you (*.C2V) and the following dialog will be shown.

Key Properties

Batch: NovaTec

Name: 2 Instance NMS

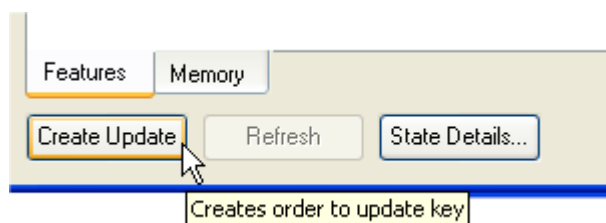
HASP ID: 1604082048 Hardware: HASP HL Pro

Program Number	Feature	License Form	License Terms
1	Standard feature	Counter	Activations: Unlimited

Features Memory

Create Update Refresh State Details... OK

You must check the HASP ID against your records, to ensure that this dongle is really the 2 NMS License dongle that you originally delivered to the customer! Now click the button **Create Update**



The Order Editor dialog is shown, and displays the original license data that is contained in the key status file that you have opened.

Order Editor

File Actions

Batch: NovaTec HASP ID: 1604082048

Name: 2 Instance NMS

Description: 2 License NMS dongle

Target: Connected Key ☐ Request acknowledgement

Possible Hardware: HASP HL Pro

Program Number	Feature	License Form	License Result
1	Standard feature	Counter	Activations: Unlimited

Features Memory

The first action you should carry out, is to change the Name and the Description to match that of the update information. Then the **Target** property should be changed to **Executable**.

Target: Connected Key ☐ Request acknowledgement

Possible Hardware

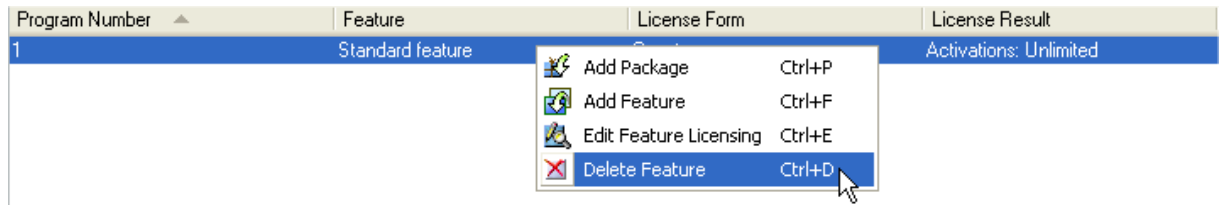
Program Number: 1

Feature: Standard feature

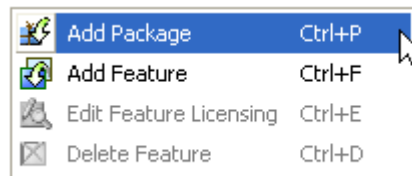
License Form: V2C

License Result: Standard feature

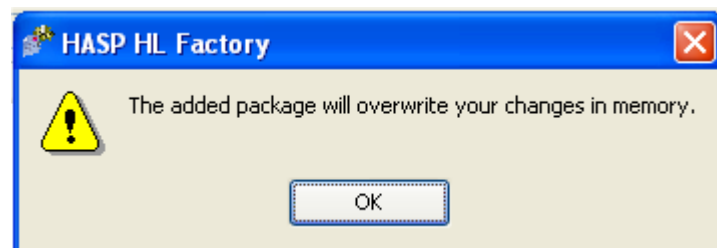
The next step is to select the feature, click the right mouse button, and from the menu that appears select **Delete feature**.



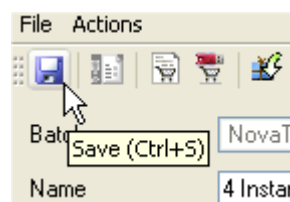
Then, click the right mouse button within the window, and from the menu that appears select **Add Package**.



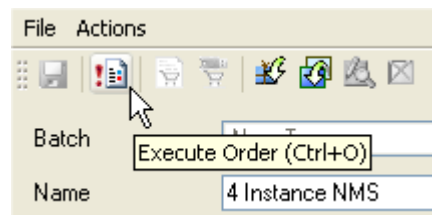
From the Choose a package dialog, select **4 NMS Licenses** and click **OK**. A dialog box will appear, which you can safely dismiss with **OK**



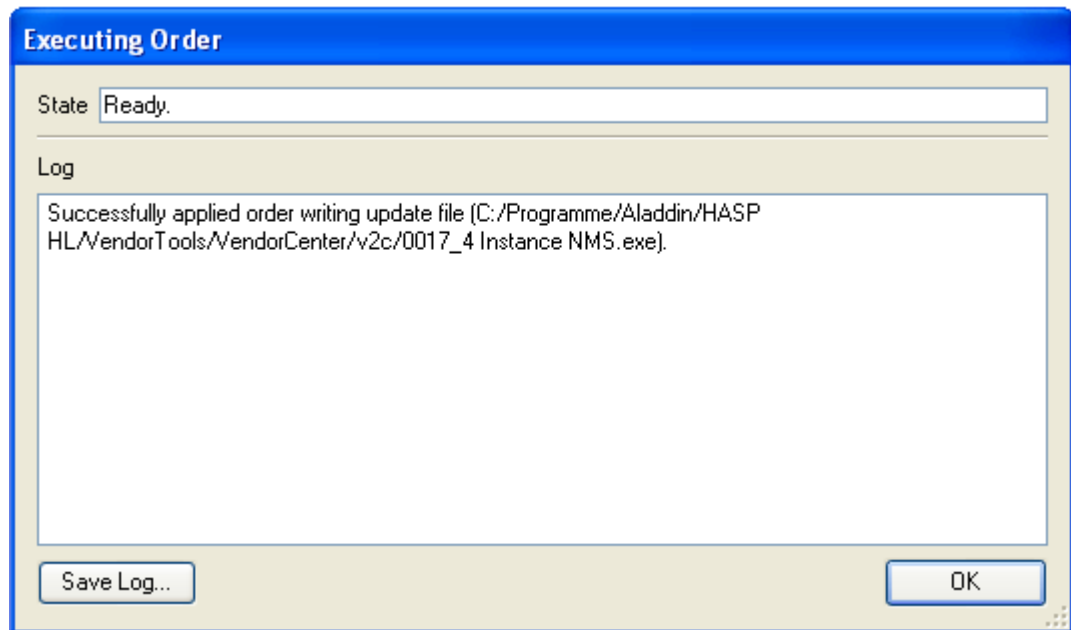
Then click the **Save** icon in the toolbar.



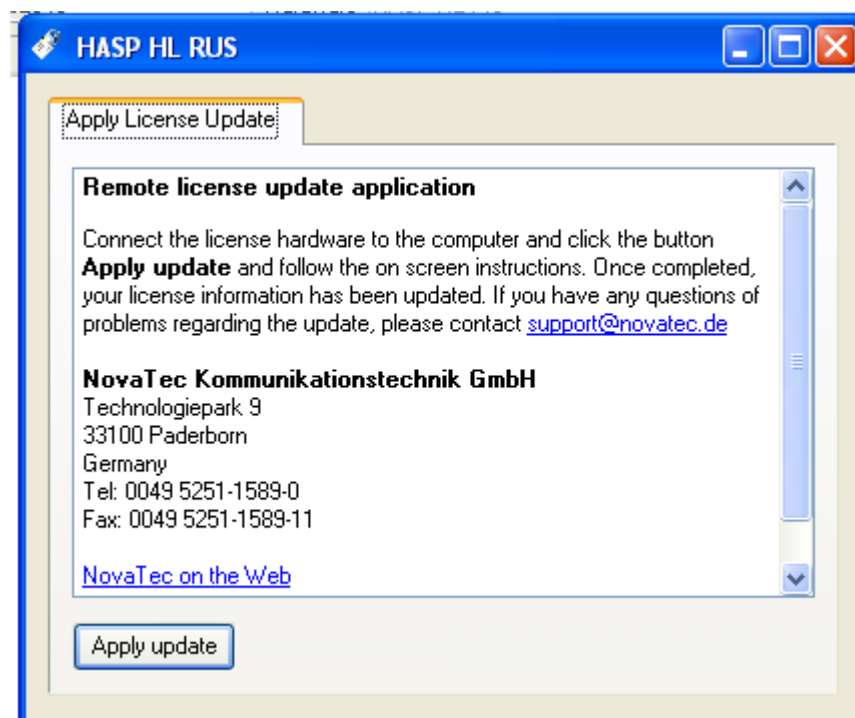
Then click the **Execute Order** icon in the toolbar



A dialog will appear, showing the current status of the procedure, and once complete, will show the location of the update file that has been created.



This file can be renamed (if required, for example update_4_nms.exe) and sent to the customer. The customer needs to run this file on the same PC that the dongle he wishes to update is connected to. **This update file is only valid for the dongle that he requested an update for.**



He should follow the on screen instructions to carry out the update.

1.2.3 ToolBox

ToolBox

If you need help to work with the HASP Toolbox, and you are looking here, then you should leave it alone, and contact someone who knows what they are doing.