Technical support

<table>
<thead>
<tr>
<th>Europe</th>
<th>Japan</th>
<th>USA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone: +49 9131 7701 6060</td>
<td>Phone: +81 3 5577 6110</td>
<td>Phone: +1 888 346 3813</td>
</tr>
</tbody>
</table>

Support URL

http://automotive.elektrobit.com/suppor

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## Modification history

<table>
<thead>
<tr>
<th>Version</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1.2.4   | ► Removed confusing ESD related menu options from the customer portal.  
          | ► Added EB Command links to the Customer portal.  
          | ► Added license return/upgrade sections.  
          | ► Added Maintenance license model description.  
          | ► Added Order-Notification email description.  
          | ► Added license file description.  
          | ► 64 bit License Administration binaries replacing 32 bit versions. |
| 1.2.2   | ► Added legacy license chapter  
          | ► Updated license server chapter |
| 1.2.0   | ► Display unique machine-ID in user interface.  
          | ► Upgrade from MS-VC9 to MS-VC10. |
| 1.1.0   | ► Service release to resolve floating license server restart and reread license issue. |
| 1.0.0   | ► Initial version |
1. About this documentation

1.1. Typography and style conventions

Throughout the documentation you see that words and phrases are displayed in bold or italic font, or in Monospace font. To find out what these conventions mean, consult the following table. All default text is written in Arial Regular font without any markup.

<table>
<thead>
<tr>
<th>Convention</th>
<th>Item is used</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arial italics</td>
<td>to define new terms</td>
<td>The <em>basic building blocks</em> of a configuration are module configurations.</td>
</tr>
<tr>
<td>Arial italics</td>
<td>to emphasize</td>
<td>If your project’s release version is mixed, all content types are available. It is thus called <em>mixed version</em>.</td>
</tr>
<tr>
<td>Arial italics</td>
<td>is used for pop-up windows names</td>
<td>The <em>Bulk Change</em> editor enables you to change data in bulk.</td>
</tr>
<tr>
<td>Arial italics</td>
<td>to indicate that a term is explained in the glossary</td>
<td><em>...exchanges protocol data units (PDU)s</em> with its peer instance of other ECUs.</td>
</tr>
<tr>
<td>Arial boldface</td>
<td>for menus and submenus</td>
<td>Choose the <em>Options</em> menu.</td>
</tr>
<tr>
<td>Arial boldface</td>
<td>for buttons</td>
<td>Select <em>OK</em>.</td>
</tr>
<tr>
<td>Arial boldface</td>
<td>for keyboard keys</td>
<td>Press the <em>Enter</em> key</td>
</tr>
<tr>
<td>Arial boldface</td>
<td>for keyboard combination of keys</td>
<td>Press <em>Ctrl</em>+<em>Alt</em>+<em>Delete</em></td>
</tr>
<tr>
<td>Arial boldface</td>
<td>for commands</td>
<td>Convert the XDM file to the newer version by using the <em>legacy convert</em> command.</td>
</tr>
<tr>
<td>Monospaced font</td>
<td>for file and folder names, also for chapter names</td>
<td>Put your script in the <em>function_name</em>\abc-folder</td>
</tr>
<tr>
<td>(Courier)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monospaced font</td>
<td>for code</td>
<td><em>CC_FILES_TO_BUILD</em> = <em>(PROJECT_-PATH)</em>\source\network\can_node.c*</td>
</tr>
<tr>
<td>(Courier)</td>
<td></td>
<td><em>CC_FILES_TO_BUILD</em> += <em>(PROJECT_-PATH)</em>\source\network\can_config.c*</td>
</tr>
<tr>
<td>Monospaced font</td>
<td>for function names, methods, or routines</td>
<td>The cos function finds the cosine of each array element. Syntax line example is <em>MLGetVar ML_var_name</em></td>
</tr>
<tr>
<td>(Courier)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monospaced font</td>
<td>for user input/indicates variable text</td>
<td>Enter a <em>three-digit prefix</em> in the menu line.</td>
</tr>
<tr>
<td>(Courier)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Convention

<table>
<thead>
<tr>
<th>Item is used</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square brackets [ ]</td>
<td>denote optional parameters; for command syntax with optional parameters</td>
</tr>
<tr>
<td>Curly brackets {}</td>
<td>denote mandatory parameters; for command syntax with mandatory parameters (in curly brackets)</td>
</tr>
<tr>
<td>Three dots …</td>
<td>indicate further parameters; for command syntax, indicates further parameters</td>
</tr>
<tr>
<td>A vertical bar</td>
<td>to separate parameters in a list from which one parameters must be chosen or used; for command syntax, indicates a choice of parameters</td>
</tr>
<tr>
<td>Warning</td>
<td>to show information vital for the success of your configuration</td>
</tr>
<tr>
<td>Note</td>
<td>to give additional important information on the subject</td>
</tr>
<tr>
<td>Tip</td>
<td>to provide helpful hints and tips</td>
</tr>
</tbody>
</table>

### This is a step-by-step instruction

Whenever you see the bar with step traces, you are looking at step-by-step instructions or how-tos.

**Prerequisite:**

- This line lists the prerequisites to the instructions.

**Step 1**
An instruction to complete the task.

**Step 2**
An instruction to complete the task.
2. Overview

Welcome to the licensing administration documentation. This document describes the steps which are required to activate a license with a FlexNet Operations On Cloud (FNOC) activation code as well as the configuration steps required to use a file-based license in combination with a dongle.

2.1. Target groups

The Product licensing user's guide provides information for users who want to use a product license of Elektrobit Automotive GmbH. The target group includes both first time users and experienced users of EB products.

The chapter 11, "License server configuration" is aimed at network administrators and server administrators. It provides information on how to install a floating network license server.

2.2. Maintenance license model

Most EB software products are sold according a maintenance based license model. All licenses except leased-, concept- and evaluation-licenses are perpetual. The maintenance period controls the access to newer product releases. During a valid maintenance period, any new release of a software can be used with the same license. Software versions which are released beyond the maintenance period can't be used. To use a release which was created after the maintenance end date, a software maintenance renewal has to be purchased.

In example 2.1, "Maintenance Period", the following restrictions are shown:

► Release 2.0 up to Release 3.1 can be used with the license that was purchased in 05/2015 which includes on year maintenance (up to 04/2016).
► Release 1.0 can't be used because a newer version was already available at the purchase date. If access to earlier versions is required, EB sales back-office can assist.
► Release 3.2 can't be used because the maintenance period has ended before Release 3.2 was available.
2.3. License bundles

Depending on the product you have ordered, you receive one of the following licensing bundles:

2.3.1. Single user or evaluation license

► Login credentials to the EB licensing portal via email notification
► Single user license activation code via email notification and via EB licensing portal
► EB Client License Administrator tool via EB Command delivery

For information about the setup of single user or evaluation licenses, see chapter 5, “Single user or evaluation licenses”.
2.3.2. Floating license

- Login credentials to the EB licensing portal via email notification
- Floating license activation code via email notification and via EB licensing portal
- EB Server License Administrator tool including the EB vendor daemon via EB Command delivery
- FlexNet Publisher lmadmin license server installer via EB Command delivery
- `EB_FLOATING_SERVER.lic` license file to configure the EB vendor daemon via EB Command delivery

For information about the setup of floating licenses, see chapter 6, “Floating licenses”.

2.3.3. Dongled license

- Login credentials to the EB licensing portal via email notification
- Hardware dongle
- Dongle serial number (HostID), the Dongle serial number can be identified by the dongle driver user interface (for more information, see section 7.3, “Retrieving dongle serial number and customer ID”).
- Dongle driver via EB Command delivery
- Only for legacy licenses:
  - License file via EB licensing portal (for more information, see chapter 10, “Legacy licenses”)

For information about the setup of dongled licenses, see chapter 7, “Dongled licenses”.

2.3.4. Hardware license

- Login credentials to the EB licensing portal via email notification
- License file via EB licensing portal.
- The board ID and serial number can be found on your EB device (for more information, see section 8.2, “Finding the EB hardware serial number”).

For information about the setup of hardware licenses, see section 8.2, “Finding the EB hardware serial number”.
2.4. Licensing shipment

2.4.1. Reading the order notification email

![Order notification email](image)

**Table: GUI item and description**

<table>
<thead>
<tr>
<th>No.</th>
<th>GUI item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Link</td>
<td>EB Command software download portal</td>
</tr>
<tr>
<td>2</td>
<td>Link</td>
<td>EB licensing portal</td>
</tr>
<tr>
<td>3</td>
<td>Info</td>
<td>EB quotation number</td>
</tr>
<tr>
<td>4</td>
<td>Info</td>
<td>Your purchase order number</td>
</tr>
</tbody>
</table>

Figure 2.1. Order notification email
<table>
<thead>
<tr>
<th>No.</th>
<th>GUI item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>License type</td>
<td>Single user, evaluation and floating licenses are provided via FlexNet operations activation codes. See chapter 5, “Single user or evaluation licenses” or chapter 6, “Floating licenses”.</td>
</tr>
<tr>
<td>6</td>
<td>License type</td>
<td>A dongled license requires a dongle and a license file. See chapter 7, “Dongled licenses”.</td>
</tr>
<tr>
<td>7</td>
<td>License type</td>
<td>EB tresos AutoCore Generic products are shipped without a license. They work only in combination with EB tresos Studio.</td>
</tr>
<tr>
<td>8</td>
<td>License type</td>
<td>Hardware licenses work together with EB hardware products, e.g. EB 6200. The provided license file needs to be uploaded to the EB hardware product.</td>
</tr>
<tr>
<td>9</td>
<td>Delivery note</td>
<td>Legacy products are only listed for your information, e.g. EB tresos AutoCore Generic 4 or EB tresos AutoCore Generic 6. If license files are provided, see chapter 10, “Legacy licenses”.</td>
</tr>
<tr>
<td>10</td>
<td>License End</td>
<td>Floating and single user licenses are permanent. They do not have an expiry date.</td>
</tr>
<tr>
<td>11</td>
<td>Maintenance End</td>
<td>New product versions are supported up to the specified maintenance end date. Products released after this date cannot be used with this license.</td>
</tr>
<tr>
<td>12</td>
<td>License End</td>
<td>Evaluation licenses work until the specified license end date. Beyond this date, a new license is required.</td>
</tr>
<tr>
<td>13</td>
<td>License info</td>
<td>Find your activation codes in this section. A license file is not provided directly by email. See chapter 7, “Dongled licenses”.</td>
</tr>
<tr>
<td>14</td>
<td>Quantity</td>
<td>The number of seats in case of a floating license or the number of allowed activations on different client machines in case of a single user license.</td>
</tr>
</tbody>
</table>
2.4.2. Reading the FlexNet Publisher license file

FlexNet Publisher license files are used for dongle-based licenses and for COMPOSITE based licenses starting with ACG7.3.

```
# Elektrobit FlexNet License
# Account Name
# AAAA-Number: QU219426
# AAA-Number: D-DE/12410
# License Issue Date: 2016-09-09
# Entitlement-ID: QU219426_Sstudio/_ACG7
#
# License for WIBU=12-12224773 160094
INCREMENT EB_TS_ARCH 2016 12310 permanent uncounted1
HOSTID=WIBU=12-12224773 ISSUED=09 sep 2016 SIGN=07AF 05EB
#
# License for WIBU=12-12224773 160094
INCREMENT EB_TS_BASE 2016 12310 permanent uncounted1
HOSTID=WIBU=12-12224773 ISSUED=09 sep 2016 SIGN=1F17 9A4E
# License for WIBU=12-12224773 160094
INCREMENT EB_TS_GENERATOR_PARALLEL 2016 12310 permanent uncounted
HOSTID=WIBU=12-12224773 ISSUED=09 sep 2016 SIGN=1CD4 5E4E
```

Figure 2.2. FlexNet Publisher license file

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>With the Entitlement-ID the corresponding order can be found in the EB licensing portal order history.</td>
</tr>
<tr>
<td>2</td>
<td>The date-based version feature of FlexNet Publisher is used to specify the maintenance end date. In this example, the maintenance ends on Dec. 31, 2016.</td>
</tr>
<tr>
<td>3</td>
<td>A license file can contain numerous license features.</td>
</tr>
<tr>
<td>4</td>
<td>A license can be permanent (i.e. perpetual) or if it is an evaluation-, concept- or leased license, a license end date can be specified.</td>
</tr>
<tr>
<td>5</td>
<td>The serial number of the WibuKey dongle is used as HOSTID. In case of using a native Flexera dongle, the HOSTID is specified as HOSTID=FLEXID=sn where sn specifies the Flexera dongle serial number.</td>
</tr>
<tr>
<td>6</td>
<td>A node-locked license is uncounted. Multiple instances of an application can be used on the machine where the corresponding dongle is connected. The license checkouts are not counted (contrary to floating licenses).</td>
</tr>
</tbody>
</table>
2.4.3. Reading the Hardware license file

Hardware license files are used for EB hardware devices like an EB 6100 or an EB 5200.

```
# EB Hardware License
# Host ID: G1214006
# License Issue Date: 2016-11-03
# Serial Number: 434
# Entitlement Id: A216942_xyz_2015
FEATURE=EB tresos Busmirror FlexRay
SUBSCRIPTION=03/2016
HOSTID=G1214006
FEATURE=EB tresos Busmirror
SUBSCRIPTION=03/2016
HOSTID=G1214006
FEATURE=EB tresos_IN_OPT_BMControl
SUBSCRIPTION=03/2016
HOSTID=G1214006
--- Signature ---
```

Figure 2.3. Hardware license file

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Device board ID (HostID), see also section 8.2, “Finding the EB hardware serial number”.</td>
</tr>
<tr>
<td>2</td>
<td>Device serial number, see also section 8.2, “Finding the EB hardware serial number”.</td>
</tr>
<tr>
<td>3</td>
<td>Entitlement name, find your entitlement in the order history in the EB licensing portal.</td>
</tr>
<tr>
<td>4</td>
<td>Multiple license features are included in one license file.</td>
</tr>
<tr>
<td>5</td>
<td>Each license feature has a subscription end date related to the maintenance period, see also section 2.2, “Maintenance license model”.</td>
</tr>
</tbody>
</table>
2.4.4. Reading the legacy floating license file set

For ACG4, ACG6 and up to ACG7.2 a combination of an EB proprietary license file for the client application and a FlexNet Publisher license file for the license server is used.

![License file for floating server](image1)

![License file for client machines](image2)

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The COMPOSITE-ID of the server is calculated by the lmcomposite.exe command line utility. It must be provided to EB before a license can be issued.</td>
</tr>
<tr>
<td>2</td>
<td>The license feature protecting the client license file.</td>
</tr>
<tr>
<td>3</td>
<td>Floating licenses are permanent (i.e. perpetual).</td>
</tr>
<tr>
<td>4</td>
<td>Number of available floating licenses.</td>
</tr>
<tr>
<td>5</td>
<td>License feature for unattended builds.</td>
</tr>
<tr>
<td>6</td>
<td>License feature which is requested by clients from the floating server.</td>
</tr>
</tbody>
</table>
2.4.5. Reading the legacy dongle license file

For ACG4, ACG6 and up to ACG7.2 an EB proprietary license file syntax is used for node locked licenses.

```
==> TRESOS LICENSE ==>
AAAAAAAA/kACi90cmVzb3NFQIUAAAAAQNawpf1ArKv7ZYDuHaahBl80LW8p1TuntPb6kAC6Q8+
WzKkvUY-Cm10N7z1rrc/ex1eCQ3ZzXvabr3xswkXW4Lrkurhli41eVF8m9WUB3swKqeh28Rv1F
u62BVBM?inGG74FkhylJz5wNxMresST0n58+2+GEBFyLirrxyz3RoWsYFYD+NX4LKNxsYX5c1A

---
1
UC#D219842
MAINTENANCE_END=30Jun2017
SERIAL_NO=961159959
[FEATURES=tresos_GENERATOR NG,tresos_GUI,tresos_GENERATOR_TEMPL,tresos_IMPORTER_TDB
CUSTOMER=CustomerName
LICENSE_ID=tresosECU
PLUGIN=
CREATION_DATE=190ct2016, 16:50

---

<== TRESOS LICENSE <==
```

Figure 2.6. Legacy node-locked (dongle) license file

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The user code (UC) contains the dongle number. In this case the dongle number is 219842 (without the leading D). The number is equal to the EB delivery number.</td>
</tr>
<tr>
<td>2</td>
<td>Maintenance end date, see also section 2.2, &quot;Maintenance license model&quot;.</td>
</tr>
<tr>
<td>3</td>
<td>List of license features (EB tresos Studio + ACG modules).</td>
</tr>
</tbody>
</table>
2.5. License activation

2.5.1. General information on license activation

- The license administrator tools communicate with the FlexNet Operations On Cloud license server and transfer a license from the FlexNet Operations On Cloud license server to your server or client machine.
- Activation-based licenses are managed by the FlexNet Operations On Cloud service.
- A license is stored in a secured file on the customer’s machine. This so called trusted storage is protected against several manipulation attempts such as rollback of the machine’s clock, backup and restore on different machines, and usage in virtual environments.

Two different license activation tools are provided:

- EB Server License Administrator (for floating licenses)
- EB Client License Administrator (for single-user and evaluation licenses)

2.5.2. License Administrator user interface

![Figure 2.7. License Administrator user interface](image-url)
<table>
<thead>
<tr>
<th>No.</th>
<th>GUI item</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Activate</td>
<td>button</td>
<td>Click for online license activation.</td>
</tr>
<tr>
<td>2</td>
<td>Return</td>
<td>button</td>
<td>Click for online license return.</td>
</tr>
<tr>
<td>3</td>
<td>Upgrade</td>
<td>button</td>
<td>Click for online license upgrade.</td>
</tr>
<tr>
<td>4</td>
<td>Number of Licenses</td>
<td>text box</td>
<td>Enter the number of floating licenses you want to activate. For single-user licenses the number is always 1.</td>
</tr>
<tr>
<td>5</td>
<td>Activation Code</td>
<td>text box</td>
<td>Enter the activation code to activate a license or choose a license from the list of already activated licenses to return the license.</td>
</tr>
<tr>
<td>6</td>
<td>Machine ID</td>
<td>section</td>
<td>The unique machine identifier is displayed.</td>
</tr>
<tr>
<td>7</td>
<td>Clear Log</td>
<td>button</td>
<td>Click to clear all messages shown in the status section.</td>
</tr>
<tr>
<td>8</td>
<td>Process Activation ...</td>
<td>button</td>
<td>Click to process offline activation or return response files.</td>
</tr>
<tr>
<td>9</td>
<td>Create Activation Request ...</td>
<td>button</td>
<td>Click to create an offline activation request file.</td>
</tr>
<tr>
<td>10</td>
<td>Create Return Request ...</td>
<td>button</td>
<td>Click to create an offline return request file.</td>
</tr>
<tr>
<td>11</td>
<td>Status</td>
<td>section</td>
<td>The status of the activation process is displayed.</td>
</tr>
<tr>
<td>12</td>
<td>DNS Name</td>
<td>section</td>
<td>The machine DNS name is displayed.</td>
</tr>
</tbody>
</table>

Choose the appropriate activation tool depending on your license model in EB Command. For more information on EB Command, see chapter 4, “The licensing project on EB Command”. For more information on the activation tools, see chapter 5, “Single user or evaluation licenses” and chapter 6, “Floating licenses”.
3. Using the EB licensing portal

3.1. Overview

Licenses of Elektrobit Automotive GmbH (EB) products are managed by an online software delivery service that helps you manage and stay current with your EB licenses.

The EB licensing portal provides you with the following features:

► Profile administration, see section 3.2, "Profile administration"
► Account administration, see section 3.3, "Account administration"
► License administration, see section 3.4, "License administration"
► Email notifications when your account or your order is updated

3.1.1. Login to the EB licensing portal

Your login credentials are provided by email. You receive a login-ID which consists of your email address and a token to set your password.

To log in, use your email address as login-ID and your customized password on the EB licensing portal:

► https://elektrobit.flexnetoperations.com
3.1.2. Password lost

If you forgot your password, use the **Password Finder** to request a new password:

> [https://elektrobit.flexnetoperations.com/control/elkb/password](https://elektrobit.flexnetoperations.com/control/elkb/password)

![Figure 3.1. EB licensing portal login](image)

Figure 3.1. EB licensing portal login
3.2. Profile administration

On the **Your Profile** page you can perform the following actions:

- Configure your account member address.
- Configure your permissions if you have the permission *Admin Privileges*. For more information on permissions, see section 3.3.1.4, “Assigning permissions to account members”.

![Your Profile page](image)

Figure 3.2. **Your Profile** page

3.3. Account administration

Your customer account is provided by EB. At least one account administration member is set up in your account per default. Additional account members can be added by EB or any other account member with account administrative privileges.

In larger companies, licenses are normally associated to specific departments or subsidiaries. Licenses for partner customers may also be associated to a specific customer account. Use *allocation accounts* for these use cases.
3.3.1. Managing allocation accounts

Prerequisite:

- The permission **Account Administration** must be activated. For more information, see section 3.2, "Profile administration".

**Step 1**
Log in to the EB licensing portal, see section 3.1.1, "Login to the EB licensing portal".

**Step 2**
Create an allocation account, see section 3.3.1.1, "Creating an allocation account".

  **Step 2.1**
  Add additional allocation accounts if needed, see section 3.3.1.2, "Adding an allocation account".

**Step 3**
Add members to an allocation account, see section 3.3.1.3, "Adding allocation account members".

**Step 4**
Assign permissions to allocation account members, see section 3.3.1.4, "Assigning permissions to account members".

**Step 5**
Switch to an allocation account, see section 3.3.1.5, "Switching to an allocation account".

**Step 6**
Move licenses to an allocation account.

  **Step 6.1**
  Transfer licenses to an allocation account, see section 3.4.3, "Transferring licenses to an allocation account".

  **Step 6.2**
  Split licenses between allocation accounts, see section 3.4.4, "Splitting licenses between allocation accounts".

**Step 7**
Verify the successful transfer of an order, see section 3.3.1.6, "Verifying a transferred order".
3.3.1.1. Creating an allocation account

Creating an allocation account

Prerequisite:

- The permission Account Administration must be activated. For more information, see section 3.2, “Profile administration”.

NOTE Delete an allocation account

If you want to delete an allocation account, contact the Product Support and Customer Care Team.

Step 1
In the EB licensing portal, browse to View Groups.

Step 2
Click Create New Allocation Account.

Example: In the screenshot below, the main account is ElektrobitTesting and two allocation accounts EB CIS-I and EB CIS-T are already available.
3.3.1.2. Adding an allocation account

**Step 1**
Enter an allocation account in the **Name** text box, e.g. **EB CIS-T**.

**Step 2**
You can also provide a note for the new account in the **Note** text box.

**Step 3**
Check the **Download** and **Transfer/Split Orders** check boxes. The **Admin** check box is checked by default. Make sure that the **Move HostDevice** check box is unchecked.

**Step 4**
As an account administrator, you are included automatically as a member in the newly created allocation account.

**Step 5**
Click **Add Allocation Account** to create the new allocation account.

Figure 3.4. The **Add Allocation Account** page

3.3.1.3. Adding allocation account members

**Step 1**
Check that you are already included in the new allocation account as administrator.

**Step 2**
Click **Add New Member** to add account members and set the intended permissions.
NOTE Transfer of licenses
Each account member that has the permission Transfer & Split Orders is able to transfer a license back to the main account.

3.3.1.4. Assigning permissions to account members

You can assign the following permissions to members of your allocation account and to yourself:

► Admin Privileges: enables to change account settings, see section 3.3, “Account administration”.
► Download Privileges: enables to download license files, see section 3.4, “License administration”.
► Transfer & Split Orders: enables to transfer licenses and to split multiple licenses, see section 3.4, “License administration”.
► Move Host & Device: this permission is not supported.

Assigning permissions to account members

Step 1
In the EB licensing portal, browse to Account Members under Administration.

Step 2
Select or unselect a check box in the permission column to assign or unassign a permissions from an account member.
3.3.1.5. Switching to an allocation account

If you are a member of multiple accounts, you can switch the account, e.g. to verify that an order was transferred successfully.

Switching to an allocation account

**Step 1**
Click the **Switch Account** button at the top of the EB licensing portal.

**Step 2**
Select the allocation account you want to verify, afterwards you are logged in to the allocation account.
3.3.1.6. Verifying a transferred order

Verifying a transferred order

Step 1
Switch to the account with the transferred order. For more information, see section 3.3.1.5, “Switching to an allocation account”.

Step 2
Browse to the order history of the selected allocation account.

Figure 3.9. Order history of the allocation account

Step 3
The previously transferred order is now visible within the allocation account. Only account members of the allocation account can see this license from now on.

Step 4
To see the license, point to the Actions button on the right side of the order line and click License(s).

Step 5
If you accidentally assigned a license to the wrong allocation account you can transfer the license back to the main account. Make sure to switch to the correct allocation account before you transfer the license back. For more information on switching accounts, see section 3.3.1.5, “Switching to an allocation account”.

Step 6
Follow the same procedure as used to transfer the license to the allocation account, see section 3.4.3, “Transferring licenses to an allocation account”.

3.4. License administration

On the EB licensing portal you can do the following license-related tasks:

► Search licenses, see section 3.4.1, “Searching licenses”.
► Access your licenses, see section 3.4.2, “Accessing your licenses”.

► Transfer licenses to a different allocation account, see section 3.4.3, “Transferring licenses to an allocation account”.

► Split licenses between allocation accounts, see section 3.4.4, “Splitting licenses between allocation accounts”.

► Upgrade a file-based license, see section 7.5, “Upgrading a file-based license to a new release”.

3.4.1. Searching licenses

On the Search Licenses page you can perform the following actions:

► Search for your licenses using different search criteria.

To search for a license, use the Find Licenses section and click Search Licenses.

► Filter your search results.

To filter your search results, use the option buttons and text boxes in the Filter By section.

► Download all your file-based company licenses in a single ZIP archive.

To download all file-based company licenses, click Download All Licenses.

Figure 3.10. Search Licenses page
NOTE

Search function only for associated licenses

Only licenses that are already associated are shown in the search result. Associated licenses are already activated on a specific machine or a license file was generated for a specific dongle. Browse to the affected order to generate your license file or to retrieve your activation codes.

NOTE

Restricted download of multiple licenses

You can download a subset of licenses with the Download button at the bottom of the page. However, only licenses which are shown according to your search criterion and have their check box activated are included in the ZIP archive.

Example: If your search criterion has provided 50 results but on the result screen you have configured to show only 25 results on a page, only these 25 results are included in the ZIP archive.

3.4.2. Accessing your licenses

Accessing your related licenses

For information on how to access legacy licenses, see section 10.3, “Accessing your legacy licenses”.

Step 1
Browse to the Order History page.

Step 2
Point to the Actions button on the right side of the related order line.

Step 3
In the context menu, click License(s).

Figure 3.11. Order History page

Within the order-related license overview page you can do the following:
Download individual license files for each dongled license catalog items.

To download an individual file, click **Download** to the right of the dongled license.

Retrieve activation codes for single user or floating license catalog items.

Activation codes are shown for single user or floating licenses.

Download all selected licenses as a ZIP archive.

To download all selected licenses, click the **Download** button on the bottom of the list.

![Download license on the Order History page](image)

**NOTE**  
License files locked to a dongle-ID

If you have ordered dongled licenses, see also section 7.4, “Generating license files” to learn how to generate license files which are locked to a dedicated dongle-ID.

**NOTE**  
ZIP archives do not contain activation codes

Activation codes are not included in the ZIP archive since these codes must be entered into the appropriate license administrator tool. You can find your activation codes also in the automatically created order notification email. You find an email history in Recent Email Notifications.

3.4.3. Transferring licenses to an allocation account

You can perform a license transfer only on a whole order. If you want to split a license pool, see section 3.4.4, “Splitting licenses between allocation accounts”.

---

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**WARNING**

You can only transfer licenses from EB tresos AutoCore Generic 7.3 and higher.

If you try to transfer a legacy license, an error occurs. For more information on legacy licenses, see chapter 10, "Legacy licenses".

---

Transferring licenses to an allocation account

**Prerequisite:**

- To perform this task, you need the permission *Transfer & Split Orders*.

**Step 1**
Browse to the **Order History** page.

**Step 2**
Point to the **Actions** button on the right side of the affected order line.

**Step 3**
In the context menu, click **Transfer** to transfer a license to an allocation account.

![Order History](image)

**Figure 3.13. Transfer License**

**Step 4**
Select the target allocation account in the **To Account**: drop-down list box.

![Transfer Order](image)

**Figure 3.14. Select target allocation account**
Step 5
Click **Submit** to save your selection.

Step 6
You can verify the transfer in the **Order Detail** view of the **Order History** under **Allocations**.

![Figure 3.15. Transfer verification](image)

### 3.4.4. Splitting licenses between allocation accounts

**WARNING**

You can only split licenses from **EB tresos AutoCore Generic 7.3 and higher**. If you try to split legacy licenses, an error occurs. For more information on legacy licenses, see chapter 10, “Legacy licenses”.

**Splitting licenses between allocation accounts**

**Prerequisite:**

To perform this task, you need the permission **Transfer & Split Orders**.

**Step 1**
Browse to the **Order History** page.

**Step 2**
Click the appropriate order to show a list of included line items.

![Figure 3.16. Select order](image)
Step 3
In the **Order Detail** view, point to the **Actions** button on the right side of a line item.

Step 4
In the context menu, click **Split** to split the license.

![Order Detail](image1)

Figure 3.17. The **Order detail** view

Step 5
Select the target allocation account in the **To Account:** drop-down list box.

Step 6
Select the number of licenses to transfer in the **Quantity to Allocate:** drop-down list box.

Step 7
Click **Submit** to complete the split and transfer operation.

![Split Line Item](image2)

Figure 3.18. Split licenses
NOTE  Split licenses only on line-item level
You can only split licenses on line-item level since each line item may have a different number of available licenses.

Step 8
You can verify the license split in the Order Detail view of the Order History under Allocations.

Figure 3.19. License split overview
4. The licensing project on EB Command

4.1. FlexNet Operations On Cloud licensing project

Several components are available on the EB Command customer portal:

- [https://command.elektrobit.com](https://command.elektrobit.com)

List of components:

- EB Client License Administrator setup file
- EB_SERVER_CONFIG_DEMO.lic license file to configure the EB vendor daemon
- EB Server License Administrator setup file
- FlexNet Publisher License Administration Guide (fnp_LicAdmin.pdf)
- Product licensing user's guide (LicensingUsersGuide.pdf)
- FlexNet License Server setup file for 32-bit (lmadmin)
- FlexNet License Server setup file for 64-bit (lmadmin)
- Sentinel HASP4 dongle driver setup file (FLEXID-9)
- WibuKey WkRuntime dongle driver setup file (FLEXID-10)

![Download released files](image-url)

Figure 4.1. The EB Command licensing project
5. Single user or evaluation licenses

5.1. Activating single user or evaluation licenses

Single user and evaluation licenses are provided via FlexNet Operations On Cloud activation codes. You can find the activation codes either in the order notification email, see also section 2.4.1, “Reading the order notification email”, or in Order History of the EB licensing portal.

Prerequisite:

- The EB Client License Administrator tool is downloaded from EB Command and installed. For more information on EB Command, see chapter 4, “The licensing project on EB Command”. For information on how to install the EB Client License Administrator tool, see section 5.1.1, “Installing the EB Client License Administrator tool”.

Step 1
Obtain your activation code from the EB licensing customer portal or from the order notification email. For more information, see chapter 2, “Overview”.

Step 2
Activate your license with the EB Client License Administrator Tool.

For online activation, see section 5.1.2, “Activating a single user or evaluation license online”.

For offline activation, see section 5.1.3, “Activating a single user or evaluation license offline”.

Step 3
Start the application.
5.1.1. Installing the EB Client License Administrator tool

Prerequisite:

- Download the EB_Client_License_Administrator_Setup.exe tool from EB Command:
  - https://command.elektrobit.com

Step 1
Run EB_Client_License_Administrator_Setup.exe.

Step 2
Select the destination folder.

Step 3
Optionally create a Start menu entry.

Step 4
Optionally create a desktop shortcut.

Step 5
Select the default option Use License Activation Codes. For more information, see chapter 5, "Single user or evaluation licenses".

Step 6
Click Install to begin the installation.
5.1.2. Activating a single user or evaluation license online

Step 1
Run the EB Client License Administrator tool from the Start menu or click the desktop shortcut.

Step 2
Enter an activation code in the Activation Code text box.

Step 3
Click Activate.

Step 4
Verify the license activation in the Status section.

Step 5
Your license is ready to use.
5.1.3. Activating a single user or evaluation license offline

**Step 1**
Run the EB Client License Administrator tool from the **Start** menu or click the desktop shortcut.

**Step 2**
Enter an activation code in the **Activation Code** text box.

**Figure 5.3. Offline client license activation**

**Step 3**
Click **Create Activation Request ...**.

**Step 4**
Save the activation request file and move it to a machine with internet access.

**Step 5**
On the machine with internet access, log in to the EB licensing portal.

**Step 6**
Browse to **Offline License Handling**.
Step 7
Click **Browse**... to load your previously created activation request file.

Step 8
Click **Process** to process your offline license activation request and save the activation response file.

Step 9
Move the activation response file to your client machine where you created the activation request.

Step 10
On your client machine, click **Process Activation** ... to load and process the activation response file.

Step 11
Verify the license activation in the **Status** section.

Step 12
Your license is ready to use.
5.2. Returning a single user or evaluation license

5.2.1. Returning a single user or evaluation license online

Step 1
Run the EB Client License Administrator tool from the Start menu or click the desktop shortcut.

Step 2
Select the line that shows the license you want to return.

Step 3
Click Return.

Step 4
Your license is successfully returned and its seat is available again for new license activation.
5.2.2. Returning a single user or evaluation license offline

Step 1
Run the EB Client License Administrator tool from the Start menu or click the desktop shortcut.

Step 2
Select the line that shows the license you want to return.

Step 3
Click Create Return Request ....

Step 4
Save the return request file and move it to a machine with internet access.

Step 5
On the machine with internet access, log in to the EB licensing portal.

Step 6
Browse to Offline License Handling.
Figure 5.7. Processing the return request file

**Step 7**
Click **Browse...** to load your previously created return request file.

**Step 8**
Click **Process** to process your offline license return request file.

**Step 9**
Save the generated license return response file.

**NOTE**

**License return response file**
The license return response file contains the license return confirmation. It is not needed further on.

**Step 10**
Your license is successfully returned and its seat is available again for new license activation.

### 5.3. Upgrading a single user or evaluation license

If you have purchased a subscription renewal of your single user license or your evaluation period was extended, then you can upgrade your license so that the new maintenance end date is applied to your current license.
5.3.1. Upgrading a single user or evaluation license online

**Upgrading a single user or evaluation license online**

**Step 1**
Run the EB Client License Administrator tool from the **Start** menu or click the desktop shortcut.

**Step 2**
Select the line that shows the license you want to upgrade.

![Figure 5.8. Online client license upgrade](image)

**Step 3**
Click **Upgrade**.

**Step 4**
Your license is successfully upgraded.
5.3.2. Upgrading a single user or evaluation license offline

Upgrading a single user license offline is a two step operation

**Step 1**
Return your license offline.

For offline return, see section 5.2.2, “Returning a single user or evaluation license offline”

**Step 2**
Activate your license offline.

For offline activation, see section 5.1.3, “Activating a single user or evaluation license offline”
6. Floating licenses

6.1. Activating floating licenses

Floating licenses are provided via FlexNet Operations On Cloud activation codes. Floating licenses are served by a floating license server within the customers network infrastructure. You can find the activation codes either in the order notification email (see also section 2.4.1, “Reading the order notification email”) or in Order History of the EB licensing portal.

Activating floating licenses on a server machine

Prerequisite:

- A lmadmin license server is set up and configured. For more information, see chapter 11, "License server configuration".

Step 1
Obtain your activation code from the EB licensing customer portal or from the order notification email. For more information, see chapter 3, "Using the EB licensing portal".

Step 2
Activate your license with the EB Server License Administrator Tool.

For online activation, see section 6.1.2, “Activating a floating license online”.

For offline activation, see section 6.1.3, “Activating a floating license offline”.
6.1.1. Installing the EB Server License Administrator tool

Prerequisite:

- Download the EB_Server_License_Administrator_Setup.exe tool from EB Command:
  
  ![Command Link]

**Step 1**

Run EB_Server_License_Administrator_Setup.exe.

**Step 2**

Select the destination folder.

**Step 3**

Optionally create a Start menu entry.

**Step 4**

Optionally create a desktop shortcut.

**Step 5**

The installation of the EB Server License Administrator tool is complete.
6.1.2. Activating a floating license online

Activating a floating license online

**Step 1**
Run the EB Server License Administrator tool from the **Start** menu or click the desktop shortcut.

**Step 2**
Enter an activation code in the **Activation Code** text box.

![Image of EB Server License Administrator tool](image)

**Figure 6.1. Online server license activation**

**Step 3**
Enter the number of licenses you want to activate. You can activate all ordered licenses on one machine or you can split your licenses to several license servers.

**Step 4**
Click **Activate**.

**Step 5**
Verify the license activation in the **Status** section.

**Step 6**
Restart your license server or re-read the licenses with the license server front end.

**Step 7**
Your licenses are ready to use on your license server.
6.1.3. Activating a floating license offline

Step 1
Run the EB Server License Administrator tool from the Start menu or click the desktop shortcut.

Step 2
Enter an activation code in the Activation Code text box.

Step 3
Enter the number of licenses you want to activate. You can activate all ordered licenses on one machine or you can split your licenses to several license servers.

Step 4
Click Create Activation Request ....

Step 5
Save the activation request file and move it to a machine with internet access.

Step 6
On the machine with internet access, log in to the EB licensing portal.

Step 7
Browse to Offline License Handling.
Step 8
Click Browse... to load your previously created activation request file.

Step 9
Click Process to process your offline license activation request and save the activation response file.

Step 10
Move the activation response file to your server machine where you created the activation request.

Step 11
On your server machine, click Process Activation ... to load and process the activation response file.

Step 12
Verify the license activation in the Status section.

Step 13
Restart your license server or re-read the licenses with the license server front end.

Step 14
Your licenses are ready to use on your license server.
6.2. Returning a floating license

6.2.1. Returning a floating license online

Step 1
Run the EB Server License Administrator tool from the Start menu or click the desktop shortcut.

Step 2
Select the line that shows the license you want to return.

Step 3
Click Return.

Step 4
Your license is successfully returned and the related seats are available again for new license activation.
6.2.2. Returning a floating license offline

Run the EB Server License Administrator tool from the Start menu or click the desktop shortcut.

Select the line that shows the license you want to return.

Click Create Return Request ....

Save the return request file and move it to a machine with internet access.

On the machine with internet access, log in to the EB licensing portal.

Browse to Offline License Handling.
Chapter 6. Floating licenses

Step 7
Click **Browse...** to load your previously created return request file.

Step 8
Click **Process** to process your offline license return request file.

Step 9
Save the generated license return response file.

**NOTE**
The license return response file

The license return response file contains the license return confirmation. It is not needed further on.

Step 10
Your license is successfully returned and the related seats are available again for new license activation.

6.3. Upgrading a floating license

If you have purchased a subscription renewal of your floating license or your evaluation period was extended then you can upgrade your license so that the new maintenance end date is applied to your current license.
6.3.1. Upgrading floating license online

Step 1
Run the EB Server License Administrator tool from the **Start** menu or click the desktop shortcut.

Step 2
Select the line that shows the license you want to upgrade.

Step 3
Click **Upgrade**.

Step 4
Your license has been successfully upgraded.

---

Figure 6.7. Online floating license upgrade
6.3.2. Upgrading a floating license offline

Upgrading a floating license offline is a two step operation

Step 1
Return your floating license offline.

For offline return, see section 6.2.2, “Returning a floating license offline”

Step 2
Activate your floating license offline.

For offline activation, see section 6.1.3, “Activating a floating license offline”

6.4. Using floating licenses on a client machine

6.4.1. Configuring a license server in client application

Configuring a license server in client application

Step 1
Start the application that requires a license.

Step 2
Configure the server settings in the application using the server name and port number that your license server administrator has provided.

Step 3
Use the application.
6.4.2. Manual setup

If you use floating or dongled licenses on your PC, installing the EB Client License Administrator tool is optional. You can configure the environment variable `EB_LICENSE_FILE` manually with the following values:

- **License server for floating licenses:** `EB_LICENSE_FILE=<port>@<your_server_name>`
  
  **NOTE**
  
  Obtain server name and port number
  
  Contact your license server administrator to obtain the server name and port number used by the FlexNet license server of your company.

- **License file for dongled licenses:** `EB_LICENSE_FILE=<path_to_your_license_file.lic>`

- **License folder as an alternative for dongled licenses:** `EB_LICENSE_FILE=<path_to_your_license_files>`

  **NOTE**
  
  Combined options
  
  You can combine different options. The license search order depends on the order of the entries provided in the `EB_LICENSE_FILE` environment variable. The entries must be separated by semicolon.

  Example: `EB_LICENSE_FILE=C:\EB\Licenses;27000@licsvr.company.com`

  **WARNING**
  
  Usage of the generic LM_LICENSE_FILE environment variable
  
  Do not use the generic LM_LICENSE_FILE environment variable to configure the EB license search order without having a reasonable requirement since using the generic environment variable may lead to conflicts with other software vendors.
7. Dongled licenses

7.1. Prerequisites when using dongled licenses

<table>
<thead>
<tr>
<th>Prerequisites when using dongled licenses</th>
</tr>
</thead>
</table>

Prerequisite:

- The WkRuntime.exe dongle driver is downloaded from EB Command and installed. For more information on EB Command, see chapter 4, "The licensing project on EB Command". For information on how to install the dongle driver, see section 7.2, "Installing the dongle driver".

**Step 1**
Generate the license files on the EB licensing portal. For more information, see section 7.4, "Generating license files".

**Step 2**
Download license files. For more information, see section 3.4.2, "Accessing your licenses".

**Step 3**
Start the application.

**Step 4**
Specify the license file location in the application.

**Step 5**
Use the application.

7.2. Installing the dongle driver

<table>
<thead>
<tr>
<th>Installing the dongle driver</th>
</tr>
</thead>
</table>

**Step 1**
Download the WkRuntime.exe dongle driver from EB Command. For more information on EB Command, see chapter 4, "The licensing project on EB Command".

Optionally download the latest version from Wibu-Systems: [http://www.wibu.com](http://www.wibu.com)

**Step 2**
Execute WkRuntime.exe.
7.3. Retrieving dongle serial number and customer ID

<table>
<thead>
<tr>
<th>NOTE</th>
<th>Dongle serial number and customer ID</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>You need your dongle serial number and customer ID to proceed with the license generation.</td>
</tr>
</tbody>
</table>

**Step 1**
Open the WibuKey control panel applet from the Windows Control Panel.

**Step 2**
Retrieve your dongle serial number - Example: 12-12114690

**Step 3**
Retrieve your customer ID - Example: 180054

![WibuKey control panel applet](image)

Figure 7.1. WibuKey control panel applet

7.4. Generating license files

You can generate license files within the EB licensing portal. For more information on the EB licensing portal, see chapter 3, "Using the EB licensing portal".
NOTE

Generate multiple dongled licenses
You can create licenses for multiple dongles at once. Enter the dongle IDs and the customer IDs for each dongle on the Generate Licenses page.

Step 1
Log in to the EB licensing portal: https://elektrobit.flexnetoperations.com

Step 2
Browse to the Order History page.

Step 3
Point to the Actions button on the right side of the related order line. In the context menu, click License(s).

Step 4
Select an article for which you want to generate licenses. To select all articles, select the Select All check box under Generate.

Step 5
Click Generate to browse to the Generate Licenses page.

Step 6
On the Generate Licenses page, enter the following information:

► Select Vendor-defined as the Node Host ID.
► Enter the serial number as WIBU=XX-XXXXXXXX, for example WIBU=12-12114690.
Your customer ID is the **Name** of the host, for example 180054.

Enter the required information in the remaining Host ID fields. You can generate multiple license files on one dongle.

For information on how to retrieve the dongle serial number and customer ID from the WibuKey control panel applet, see section 7.3, "Retrieving dongle serial number and customer ID".

**Step 7**
Click **Generate** to generate license files based on the provided information.

![Generate Licenses](image)

### 7.5. Upgrading a file-based license to a new release

These instructions apply only to file-based licenses using the FlexNet license technology.

**Step 1**
Browse to the **Order History** page.

**Step 2**
Point to the **Actions** button on the right side of the affected order line.

**Step 3**
In the context menu, click **License(s)**.
Step 4
For example, a new release 11.0 is available in addition to the previous release 10.0.

Step 5
Click **Upgrade** to upgrade your license file to the new release.

Step 6
Download your upgraded license file.
7.6. Downloading license files from the License Information page

**WARNING** Do not save dongled license files from the View Licenses page
If your dongled license files were generated successfully, **View Licenses** is shown with a **Save All** button. Do not click this button. Instead, download your license files via **License Information**.

**Step 1**
Browse to the **Order History** page.

**Step 2**
Click any order number on the left side.

**Step 3**
On the **Order Detail** page, point to the **Actions** button on the right side of the related order line.

**Step 4**
In the context menu, click **License(s)**.

**Step 5**
On the **License Information** page, click **Download** on the bottom to download all dongled licenses. To download a single dongled license, click **Download** on the right.

![Figure 7.6. Download button](image)
7.7. Downloading license files from the Order History page

You can download a single license file or all license files in a ZIP archive from the Order History page. For information on downloading license files, see section 3.4.2, "Accessing your licenses".
8. Hardware licenses

Hardware licenses are provided in a license file which must be uploaded to an EB hardware product, e.g. EB 5200 or EB 6100. The license technology is not based on FlexNet. Multiple module licenses are integrated in one license file and a digital signature is applied during downloading the license file.

8.1. Downloading license files from the Search Licenses menu

License files for EB hardware products are created during the download from the FlexNet portal. A license file for a specific product accumulates all module licenses.

**NOTE**  Download All Licenses

You can download all available license files associated to your account in a ZIP archive by clicking on the **Download All Licenses** button. The ZIP archive contains hardware license files as well as previously generated FlexNet license files and legacy licenses files if available. For more information about **Search Licenses**, see section 3.4.1, "Searching licenses".

**WARNING**  Download hardware licenses via the Order History is not possible

The hardware license files are generated during the download from the EB licensing portal. It is not possible to download individual signed license files via the **Order History** page. The received files provide only fragments of the required license file without a digital signature.

---

**Downloading license files from the Search Licenses menu**

**Prerequisite:**

- The EB hardware product serial number is known, see section 8.2, "Finding the EB hardware serial number".

**Step 1**

Login to the EB licensing portal and navigate to **Search Licenses**.

**Step 2**

Choose **Serial Number** in the **Search** drop-down box.

**Step 3**

Enter the last part of the serial number in the **For** text box with **surrounding asterisks**.

**Step 4**

Click **Search Licenses**.
Step 5
Navigate to the bottom of the page and click the **Download** button.

Step 6
Save the file on your machine and upload it to your EB hardware product.
8.2. Finding the EB hardware serial number

The EB hardware serial number is required to find and download the appropriate license file on the EB licensing portal. You need the number behind the hardware type in the serial number.

**NOTE**

**Example**

If your serial number is **EB 5200-0860** then you need the number **0860** when you search for your license on the EB licensing portal.

---

Finding the serial number on an EB hardware box

**Step 1**
Find the nameplate on your box.

**Step 2**
Locate the box serial number on the nameplate.

![Figure 8.2. EB hardware box nameplate](image)

Finding the serial number on an EB hardware slot card

**Step 1**
Find the nameplate on your slot card.

**Step 2**
Locate the slot card serial number on the nameplate.

![Figure 8.3. EB hardware slot card nameplate](image)
9. Partner licenses for EB tresos Studio

9.1. Overview

Partner licenses are delivered to partner companies of EB that redistribute EB tresos Studio together with their own modules to their customers. Therefore a redistributable license is required. Partner licenses are provided as a set of activation codes. An additional license feature for EB tresos Studio contains the provider-ID which is required to digitally sign the modules developed by the partner.

9.2. Background information

9.2.1. Restrictions for partner licenses

- The EB tresos Studio partner license is provided to the partner to develop and test partner-specific modules. The cryptographic key that is required to sign the partner-specific modules is included in this license.
- The EB tresos Studio customer partner license contains the cryptographic key to unlock the signed partner modules on the partner's customer machine.
- All allowed modules on the partner's customer machine must be cryptographically signed with the key provided by the partner license.
- The partner customer can also use a full-featured EB tresos Studio which can be ordered from EB if it is required to use also unsigned modules.

9.2.2. Restrictions for partner customers

- The EB tresos Studio activation code for a partner license must not be shipped to the customer.
- EB ships a bundle of EB tresos Studio license activation codes for partner customers to the partner. The partner ships one activation code out of this bundle to one customer.
- Unsigned modules in the partner's customer installation are not accepted and are deactivated as long as the partner's customer uses the restricted EB tresos Studio version.
- EB ships a number of evaluation licenses to the partner which can be forwarded to a partner customer to evaluate EB tresos Studio.
9.3. Using partner licenses

9.3.1. Using a partner license as a partner

<table>
<thead>
<tr>
<th>Using a partner license as a partner</th>
</tr>
</thead>
</table>

**Step 1**
Activate the partner license on the partner machine.

**Step 2**
Develop and test the partner-specific modules.

**Step 3**
Sign the partner modules with the provider-ID on the command line.

**Step 4**
Redistribute EB tresos Studio to the customer.

**Step 5**
Provide one activation code for a partner customer license of EB tresos Studio to your customer.

**Step 6**
Redistribute the EB Client License Administrator tool to your customer.

9.3.2. Using a partner license as a partner customer

<table>
<thead>
<tr>
<th>Using a partner license as a partner customer</th>
</tr>
</thead>
</table>

**Step 1**
Install EB tresos Studio which you have received from the partner.

**Step 2**
Install signed modules received from the partner.

**Step 3**
Activate the partner customer license for EB tresos Studio with the activation code received from the partner.

**Step 4**
Start working with EB tresos Studio.
9.4. Retrieving the provider-ID

The provider-ID is contained within a special license feature which is included in the partner license. The provider-ID is encoded as suffix in the `EB_TS_CRYPTO` feature line. It is required to sign modules using the signature tool. The provider-ID is typically the partner’s company name or an abbreviation of the partner’s company name.

<table>
<thead>
<tr>
<th>Retrieving the provider-ID</th>
</tr>
</thead>
</table>

**Step 1**
If you have a single user license, double-click the EB tresos Studio product for partners in the EB Client License Administrator tool.

**Step 2**
If you have a floating license, double-click the EB tresos Studio product for partners in the EB Server License Administrator tool.
Step 3  
Locate the `EB_TS_CRYPTO` feature and extract your provider-ID from the feature name suffix.

**Example:** The provider-ID in `EB_TS_CRYPTOyourPartnerCode` is `yourPartnerCode`.

---

![Image of EB Client License Administrator tool](image)

Figure 9.2. The provider-ID in the EB Client License Administrator tool

### 9.5. Use of the signature tool

EB tresos Studio includes a signature tool which is capable to sign module plug-ins. The signature tool is accessible via the command line of EB tresos Studio. To operate the signature tool, a partner license of EB tresos Studio for must be activated.

For more information on working with the signature tool, see section *How to sign modules with the crypto command* in your EB tresos Studio developer's guide.
9.6. Software redistribution

To operate EB tresos Studio on a partner's customer machine, several components must be shipped to the partner customer:

- Product licensing user's guide
- EB Client License Administrator tool
- A copy of EB tresos Studio for the partner customer
- Activation code for a partner customer license of EB tresos Studio
- Signed partner modules
10. Legacy licenses

10.1. Overview

Legacy licenses are dongled and floating licenses which are not covered by the default Flexera license generation process. The following products are affected:

- EB tresos OSEK
- EB tresos AutoCore Generic 4 and the corresponding EB tresos Studio release
- EB tresos AutoCore Generic 6 and the corresponding EB tresos Studio release
- EB tresos AutoCore Generic 7 and the corresponding EB tresos Studio release, up to 7.2

10.2. Background information

Legacy licenses are distributed through .lic license files.

The schema for legacy license files is tresos_Customer_<customernamename>_<licensetype>.lic

- <customernamename> is your company name
- <licensetype> is either FLOATING or DONGLE

Example for a floating license: tresos_Customer_Elektrobit_Automotive_GmbH_FLOATING.lic

Example for a dongled license: tresos_Customer_Elektrobit_Automotive_GmbH_DONGLE.lic

10.2.1. Legacy dongled licenses

A legacy dongled license consists of one license file for the client machine.

10.2.2. Legacy floating licenses

A legacy floating license consists of two license files, one for the client machine and one for the floating license server.
10.3. Accessing your legacy licenses

10.3.1. Accessing legacy floating licenses

You receive legacy floating licenses in the EB licensing customer portal either as single .lic license file or packed in a .zip file.

![Figure 10.1. Legacy floating license in a .lic file](image-url)
Order Number: 0U218907_AC6_EVAL
Order Date: Feb 15, 2019
PO Number: Eval

<table>
<thead>
<tr>
<th>Line Number</th>
<th>License Type</th>
<th>Total Number of Licenses</th>
<th>Available</th>
<th>License Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ACG6 Memory Stack</td>
<td>1</td>
<td>0</td>
<td>Version: Win32x86</td>
</tr>
<tr>
<td>2</td>
<td>ACG6 RTE</td>
<td>1</td>
<td>0</td>
<td>Version: Win32x86</td>
</tr>
<tr>
<td>3</td>
<td>EB tresso Studio for ACG5</td>
<td>1</td>
<td>0</td>
<td>Version: 14.x</td>
</tr>
<tr>
<td>4</td>
<td>Composite</td>
<td>1</td>
<td>0</td>
<td>License Key: COMPOSITE=FB5A5A19547F</td>
</tr>
</tbody>
</table>
| 5           | LicenseFile             | 1                        | 0         | License File: lic-20160315-034150-dv-0U218907L.zip | Download

**Figure 10.2. Legacy floating license in a .zip file**
10.3.2. Accessing legacy dongled licenses

Legacy dongled licenses are shown in the Order Detail view of the Order History. Each order with a preceded X is a delivery note for a legacy dongled license.

For more information on the EB licensing customer portal, see chapter 3, “Using the EB licensing portal”.

![Image of Order Detail view]

Figure 10.3. Legacy floating license in a .zip file
11. License server configuration

11.1. Overview

This chapter is aimed for network administrators and server administrators. It provides information on how to use and configure a FlexNet lmadmin license server.

The following components are mandatory to configure a FlexNet license server:

► The FlexNet lmadmin license server package is installed as service on the server machine and listens on the lmadmin default port number 8090. For more information on the FlexNet lmadmin license server, see the FlexNet Publisher License Administration Guide.
► The EB Server License Administrator tool is installed in the default directory, see section 6.1.1, “Installing the EB Server License Administrator tool”.
► Floating licenses are activated on the server machine, see section 6.1.2, “Activating a floating license online” and section 6.1.3, “Activating a floating license offline”.
► The EB_FLOATING_SERVER.lic license file which is available on EB Command was downloaded and copied to C:\EB\EB_Server_License_Administrator\licenses.
► After installing the EB Server License Administrator tool, the EB vendor daemon executable file is located in <installfolder>\<platform>\EB.exe.

Example: C:\EB\EB_Server_License_Administrator\x64\EB.exe

11.2. Background information

11.2.1. EB vendor daemon

► The EB vendor daemon is only available for Microsoft Windows operating systems.
► The EB vendor daemon is available as 32-bit and 64-bit version. Depending on your operating system, install either the 32-bit or the 64-bit lmadmin license server and use the suitable EB vendor daemon.
11.3. Transferring floating licenses from lmgrd to lmadmin

If you have older licenses from lmgrd, follow the instructions to transfer the licenses to lmadmin.

| Transferring floating licenses from lmgrd to lmadmin |

**Step 1**
Shutdown the lmgrd service.

**Step 2**
Copy all licenses from your previous license file to the `EB_FLOATING_SERVER.lic`.

Your older licenses are now managed by the lmadmin server.

11.4. Logging in to the license server

| Logging in to the license server |

**Prerequisite:**

- The lmadmin license server package is installed.
- The *EB Server License Administrator* tool is installed, see section 6.1.1, “Installing the EB Server License Administrator tool”.
- Floating licenses are activated on the server machine, see section 6.1.2, “Activating a floating license online” and section 6.1.3, “Activating a floating license offline”.
- `EB_FLOATING_SERVER.lic` license file is copied to `C:\EB\EB_Server_License_Administrator\licenses`.

**Step 1**
In your favorite browser, browse to localhost:8090.

**Step 2**
Click the Administration button to browse to the administration page.
Step 3
Log in to the server as user admin.

Step 4
The default password for the admin user is admin.

NOTE  Password change
Upon your first login to the administration page you are prompted to change the default password.

11.5. Importing a license file

Step 1
Click Vendor Daemon Configuration to browse to the Vendor Daemons page.
Figure 11.2. The Vendor Daemons page

Step 2
Click **Import License**.

Step 3
Click **Browse** and select the `EB_FLOATING_SERVER.lic` license file which you have downloaded from the EB Command portal. The default location is `C:\EB\EB_Server_License_Administrator\licenses`. 
Step 4
Click **Import License** to import the selected license file.

**NOTE**
Overwrite license file
If you import the license file for the first time, do not select the **Overwrite License File on License Server** option. Otherwise, select the check box.

### 11.6. Verifying the license file import

**Step 1**
Check that the license file import was successful in the **Import Information** section.
Step 2
If the path to the EB vendor daemon is not yet configured, ignore the vendor daemon error messages in the Import Errors and Import Warnings. For information on configuring the EB vendor daemon, see section 11.7, “Configuring the EB vendor daemon”.

Step 3
Click OK.

Step 4
On the Vendor Daemons page, point to the vendor daemon line with the Stopped status and click the highlighted line to browse to the EB vendor daemon configuration page.
11.7. Configuring the EB vendor daemon

Step 1
In the text box **Vendor Daemon Location**, enter the path to the EB vendor daemon file **EB.exe**.

![Vendor daemon configuration](image)

**Figure 11.6. Vendor daemon configuration**

**NOTE**

32-bit or 64-bit version of the EB vendor daemon
Choose the appropriate platform depending on your lmadmin license server version.

Step 2
Select the **Enable Date-based Versions** check box. It is very important to check this check box because the end date of the license subscription is coded into the license version.
Step 3
Click **Save** to save your EB vendor daemon configuration.

Step 4
A message indicates that the EB vendor daemon configuration was successfully updated. Click **Start** to start the EB vendor daemon.

![Image of successful EB vendor daemon configuration]

**Figure 11.7. Successful EB vendor daemon configuration**

### 11.8. Verifying the EB vendor daemon

**Verifying the EB vendor daemon**

**Step 1**
The lmadmin initiates the EB vendor daemon startup with the message **Starting vendor daemon: EB.**
Step 2
The status **Starting up** is shown.

Step 3
Wait a few seconds and click **Vendor Daemon Configuration** to refresh the page.

Step 4
The status **Up** indicates that the EB vendor daemon is active.
11.9. Verifying your licenses

Step 1
Click **Dashboard** to browse to the FlexNet Publisher license server dashboard.

![Figure 11.10. Verify licenses](image)

Step 2
Click **Concurrent**.

Step 3
The **EB_TEST_SERVER** license feature is available.

---

**NOTE**  
All activated licenses are shown  
This page shows all your activated licenses available on your server machine.

---

**NOTE**  
Activating floating licenses at the license server  
For instructions on how to activate a floating license, see [chapter 6, “Floating licenses”](#).