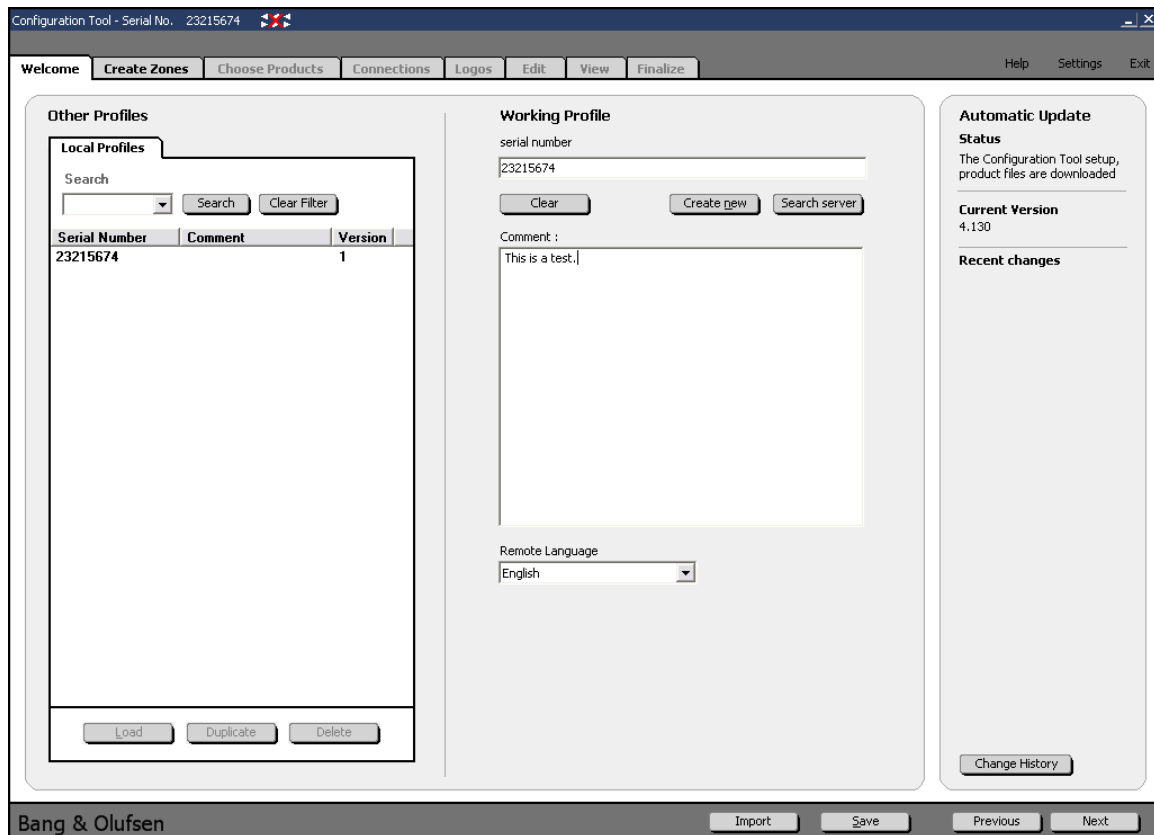


Welcome

In **Welcome**, it is possible to create a new Beo5/Beo6 configuration or search through previously created configurations.



Create new working profile

A **Working Profile** consists of three elements: the serial number, your comments and remote language.

1. Serial Number

The number will be registered as soon as a remote is placed in the docking station, if the docking station is connected to the USB port on the PC. If the serial number is not registered automatically, check that your computer is connected to the remote. When there is no connection, the six white arrows in the upper left corner are covered by a red X.

If you for some reason want to start without having a remote connected, you can enter any number, and the configuration will be stored locally under this number for later use.

2. Comments

Add your own comments to the current profile or customer.

3. Remote language

Select the customer's preferred language. This will change the texts used in the remotes display menus. Some texts like TV and RADIO etc. are not translated, but most texts in sub menus are translated. You can choose between more than eight languages. When you print the glossary, more languages are available (refer to the **Finalise** tab for more details).

Configuration Tool – Guide

When you have filled in all the relevant fields, click **Create New**.

If the serial number does not exist, a new configuration is created.

You can start working on the configuration after clicking "OK".

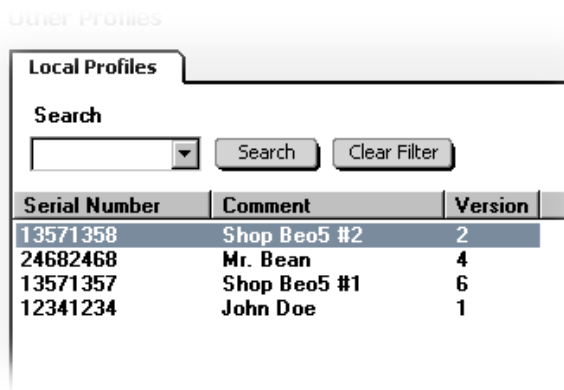


If you want to continue working on an existing configuration but you cannot find it, you enter the serial number and click **Search Server**. The profile matching the serial number is loaded from the server.

If you click on **Clear**, you will remove all settings from the configuration, you are working on. Use this function if you want to start over with the configuration.

Click on **Save** to store the configuration locally. It is also possible to store the configuration on the server under **Finalise**.

Find existing profile



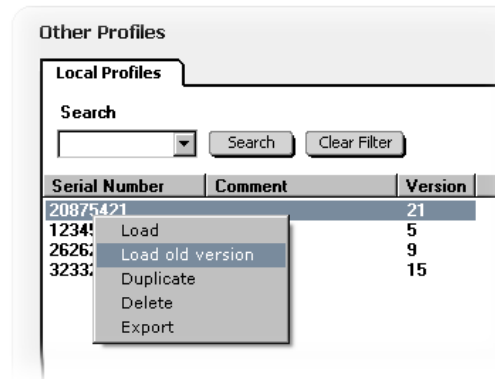
In **Other Profiles** to the left, you can find all the **Local Profiles** you have created. If the Beo6 serial number fits with an existing profile, this profile will automatically be loaded when a remote is placed in the docking station, or when you click **Create New**.

In the Search field, you enter data on an existing profile you wish to find. This means that if you have entered a comment, e.g. customer name, serial number when creating the profile, you can also search on the comment and all existing profiles matching the search word will appear. Click on **Clear Filter** to clear the search field.

You can work on an existing profile without having a remote docked. Find the profile number you want to work on and click **Load**.

Load old version

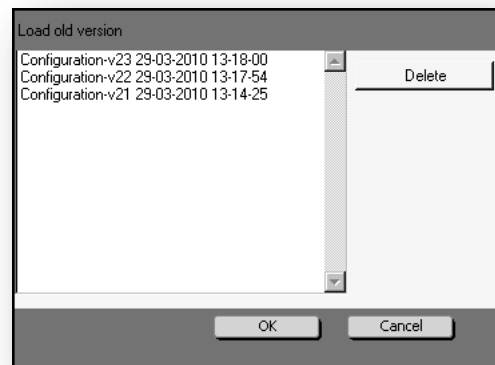
Each time a configuration is saved, the version number is incremented. If you want to return to a previous version of the configuration, then right-click on the serial number for the configuration and select **Load old version** from the menu.



This will bring up a list of all the versions. Select a version from the list and click **OK**.

It is possible to delete old versions if you want to free up hard disk space. Select the version and click **Delete**.

Click **Cancel** if you do not want to load an old version.



Note that the restored version will continue version numbering from the highest version number. Note that version numbering always continues from the highest version number, even if you base a new version on an old, restored one.

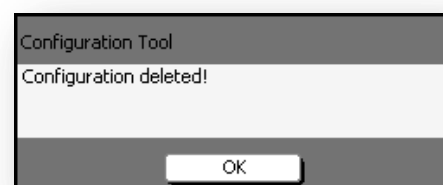
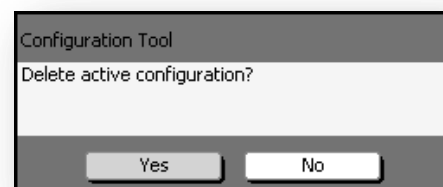
Duplicate existing profiles

You can reuse an existing configuration for a new configuration. When you have found the profile, you want to use, click it and select **Duplicate**.

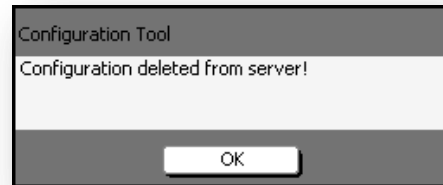
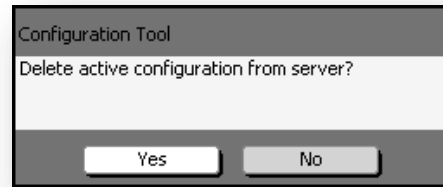
Delete existing profiles

The **Delete** button will delete the presently active configuration from your database. Select the profile from the **Local Profiles** list.

Use this function if you want to start over with the configuration.



You can also delete the configuration from the B&O database on the server. This is only possible if the remote for this configuration is connected. If the remote is connected, you will see an additional dialog after "**Delete active configuration?**"



IMPORTANT! Be careful when deleting customers' configurations. All data are lost.

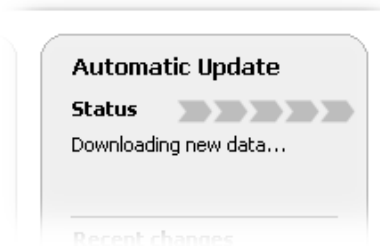
Automatic Update

The Tool will automatically download updates from the server when you start it but it requires that you are working online and have a valid Retail login.

The download time can vary depending of the bandwidth of your Internet connection and the size of the update.

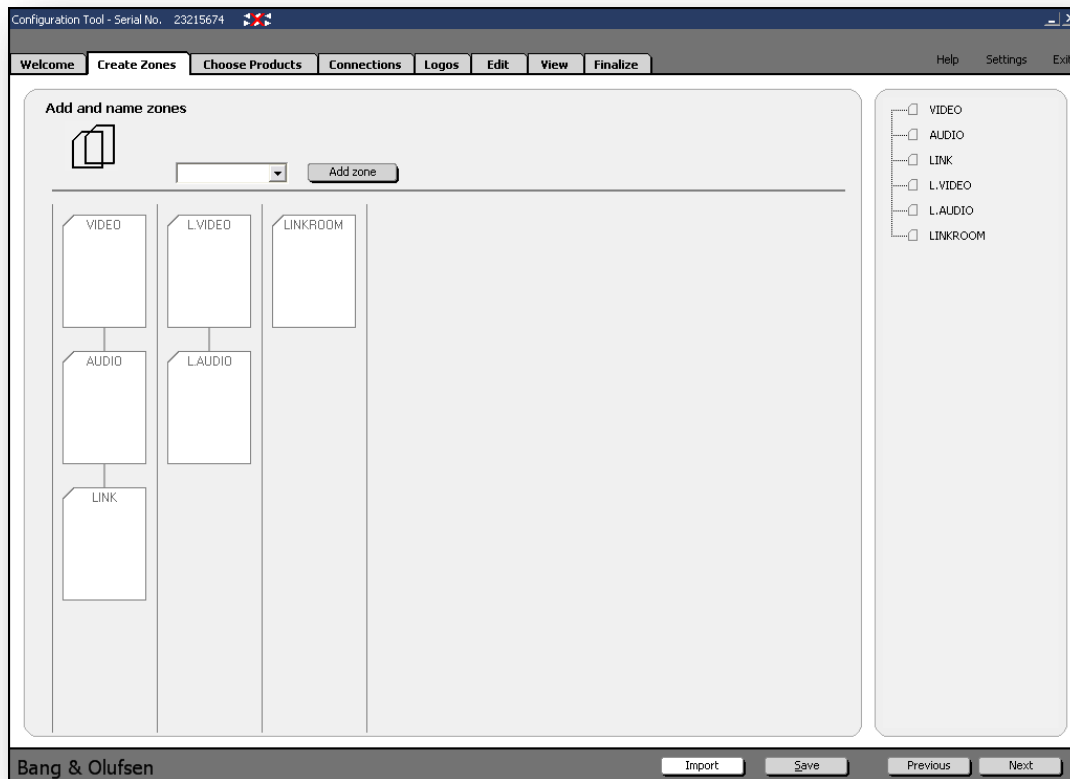
The update includes firmware, products, templates and logos. See the **Change History** for details.

Please note that it is not always possible to update the program itself. If your version number is lower than what is stated in the **Current version** you must download the latest version from BeoWise and install it. It is not necessary to uninstall the existing version.



Create Zones

This is the first step in configuring the remote control according to your customer's individual product setup and personal wishes.



Here you must create the relevant number of zone(s) in the customer's product setup.

A zone can be defined as a room or area in which there is one set of loudspeakers and one IR-receiver or integrated speakers and IR-receiver. This means that you can have several zones in one room of the house, whenever required.

An example of one zone would be if you have a BeoVision 6 in Option 2 and a BeoSound 4 in Option 0.

An example of two zones would be if you have a BeoVision 6 in Option 1 and a BeoSound 4 in Option 1, and a set of speakers connected to the BeoSound 4.

The vertical lines illustrate the physical room where products can see the same IR-commands.

It is very important to define the zones correctly, since the IR-commands often depend on the Option settings of the products.

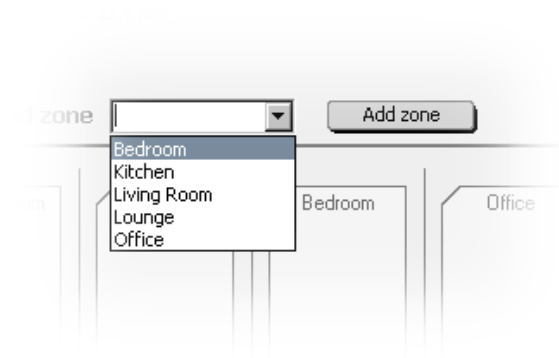
Add zones

There are two ways of adding a zone:

1. You can enter the zone name you wish to use in the **Add zone** field. Then

click **Add zone**.

2. You can select a name from the 'drop-down menu' of zones you have used before in another configuration. Then click **Add zone**.



Start by defining the Main room, which should be placed in the first column (in case of Option 2-2, in the first and second column).

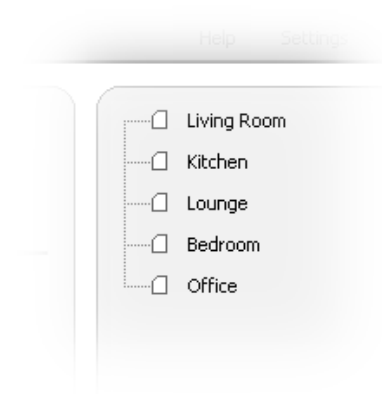
Once a zone has been created, it appears as an image below. You can drag and drop a zone to a different location (a different room) provided that this is in accordance with the rules defined by the Tool.

Zones placed on top of each other are considered within the same IR area (e.g. a large living room where the same IR command from the remote will reach all zones).

If you have misspelled a zone and want to remove it from the drop-down menu, you must select the zone from the menu. Then press the delete button on your keyboard.

A room (or IR area) may contain more than one zone. In a Bang & Olufsen setup with a Main room and several Link rooms:

- The Main room will always be placed in the first column.
- The Main room may contain *no more than 3 zones*.
- The Link room may contain *no more than 2 zones*.
- It is not recommended to define more than 10 zones. The maximum number of zones is 20.
- The configuration can contain only one Master Link system.

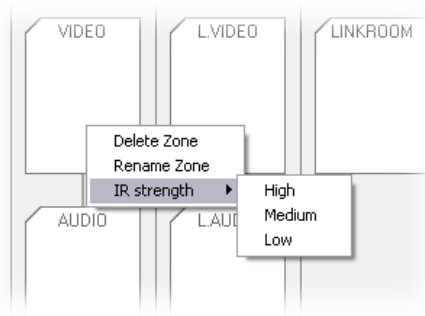


As you add zones, you can also see a list of the added zones in the tree-view to the right.

This tree will grow as you proceed with the configuration.

Delete zones

You can delete an existing zone by right-clicking on the image of the zone you want to delete, and select **Delete Zone**.



If you choose to delete a zone, everything in the zone is deleted from the configuration. This means that if you delete a zone containing a Master product, the sources for this product are deleted. This will also affect the Link rooms and any changes made to the sources will be lost as well.

Rename zones

You can rename an existing zone by right-clicking on the image of the zone you want to rename, and select **Rename Zone**. The zone name will then become editable and you can enter the new name. Press the return key on your keyboard to activate the change. This will not affect other settings in the configuration.

Setting IR strength

You can control how the IR strength is set in the entire zone by right-clicking on the zone and selecting the level of IR strength. By default the strength is high. Medium level is equivalent to 60% of full power and Low is 5%.

This setting can be overruled by another setting in a macro or if the remote is in dealer mode.

Add and change zones after making changes in Edit

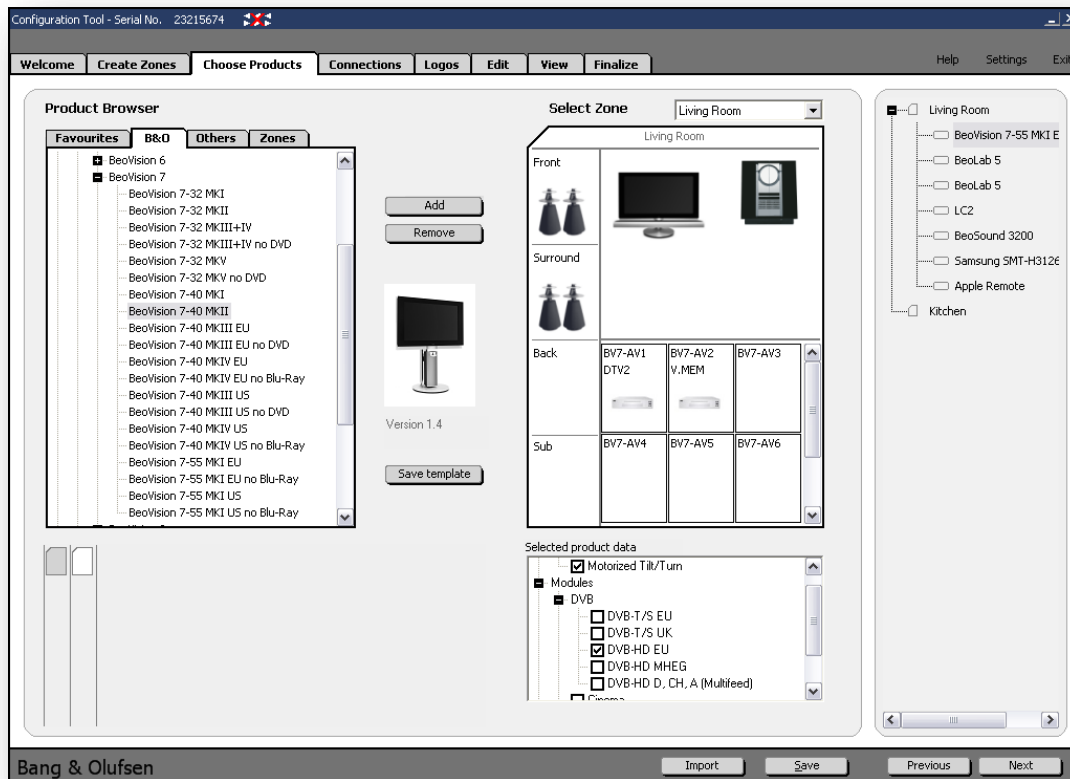
It is always possible to go back to **Create Zones** to change the setup or add zones. This is useful if you realise that a zone is missing in the configuration, or if the customer wants to add a new Link room etc.

However, it is important to remember that some changes made in **Choose Product** or **Edit** may be lost, when you later make changes in **Create Zones**.

Also moving zones around may cause changes to be lost. However, you can add new zones without affecting the configuration too much.

Choose Products

At this step, you must place products into each zone according to the product setup in your customer's home.



Place products into a zone

Start by selecting the zone you want to place the product in. You can select a zone in three ways:

1. Select a zone name, for example "Living room", from the drop-down menu **Select Zone**.
2. Select a zone name from the tree view.
3. Click on the relevant "zone icon" below to the left. By placing the mouse over a "zone icon", the zone name is shown.

Add B&O products to a zone

Select the **B&O** tab to the left and all available B&O products appear in a list below. The products are divided into six categories:

1. Audio
2. Video
3. Speaker
4. Link
5. Accessories
6. Expanders

You can add a product to the zone by:

1. Drag and drop products from the list into the zone.

2. Click **Add** when a product is highlighted.

NOTE! Video and Audio masters must always be placed in a zone *before* Speakers and Video Sources.

You can only add these products to the configuration if the connection is physically possible. Otherwise, the Tool will prevent you from adding the selected product, or you will be presented with the option to add the selected product to a new zone.

IMPORTANT! You may be able to build setups, which cannot work in practice. The Tool does not check all aspects of product connections. It is your responsibility to ensure the validity of the configuration.

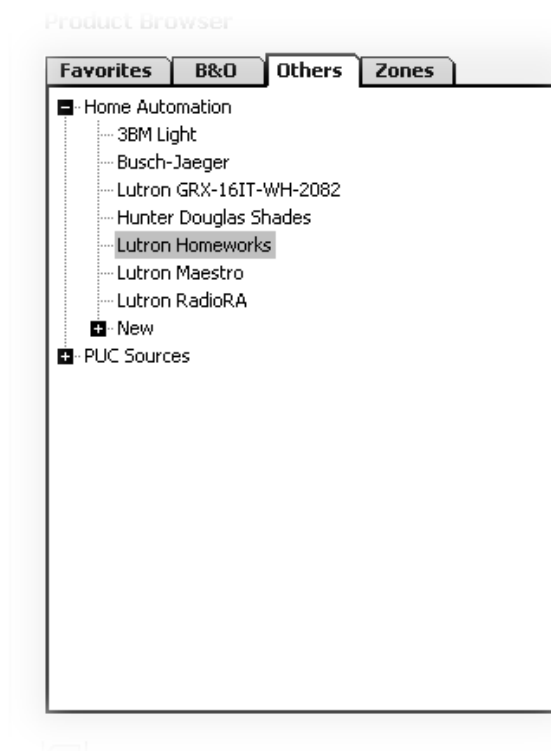
To make a configuration with an "old" product, which is not present in the list, you must find a product in the list that resembles the "old" product.

This list also contains Video 1-3, which you can select if the product in question is one resembling or contained in the Beo4 CONFIG lists: VIDEO 1-3.

Normally the Tool sets the product options automatically. But you can also **set a different product option** by right-clicking on the product, and selecting a new option.

Add non-Bang & Olufsen products to a zone

Select the **Others** tab. A list of available non-Bang & Olufsen products appears below.



There are two types of non-Bang & Olufsen products:

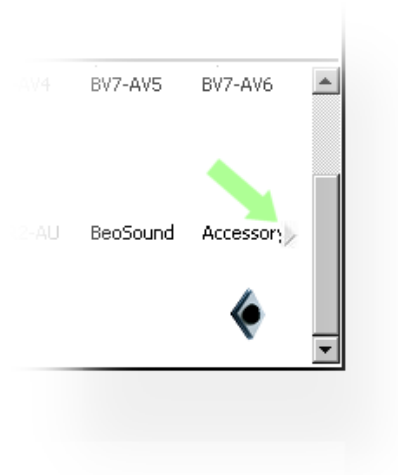
1. **Home Automation**
This is where you will find Home Automation accessories, such as light controls, curtains and door automations, air-conditions etc. The list will be expanded with new products as requests are received.
2. **PUC Sources**
This is where you will find all sources controlled by the Peripheral Unit Controller (PUC) in Bang & Olufsen televisions. By adding products from the list, you will get a customised source menu suited for this specific product. Usually this means getting the function from the overlay menu on the television as buttons on the display. Furthermore, the buttons on the aluminium ball are mapped to the comparable buttons on the original remote control.

Non-Bang & Olufsen products such as set-top boxes, DVD players, Media players, etc. are controlled via the PUC built into Bang & Olufsen televisions. These products are operated through the TV and the remote will send ordinary Bang & Olufsen IR-commands. Other types of products are accessories, also called Home Automation products. These products are controlled directly from the remote with the IR protocol used in the original non-Bang & Olufsen remote control.

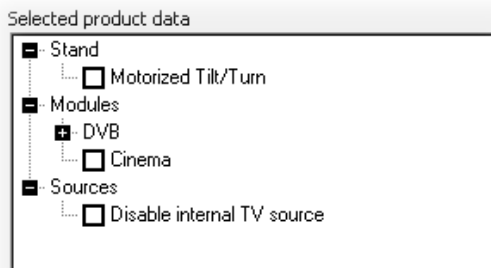
NOTE! If you add accessories or Home Automation devices to a zone, there must be at least one Bang & Olufsen product in the zone. You control the accessories and Home Automation devices using the Scene menu on the remote control.

If you have placed more than one accessory in a zone, it is indicated with a small arrow on the box that can be used to browse the devices.

It is also possible to select an accessory by clicking on the device in the product tree. This will bring the accessory to the front in the box.



Product settings



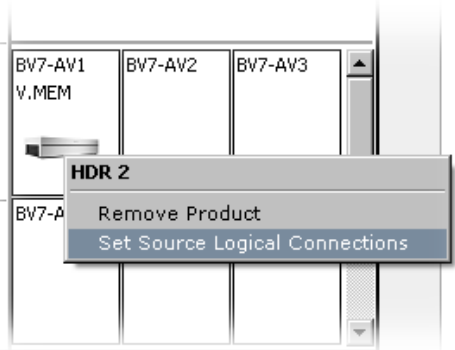
When you click a product in your configuration, you can see available product settings in the “**Selected product data**” box. Here you can make settings for the customer's product by using the check boxes.

Product settings can be found in B&O Audio and TV products and connected sources like BeoMaster 5 and set top boxes.

Some settings may affect the way logical source names are allocated. You may therefore need to change the logical connections.

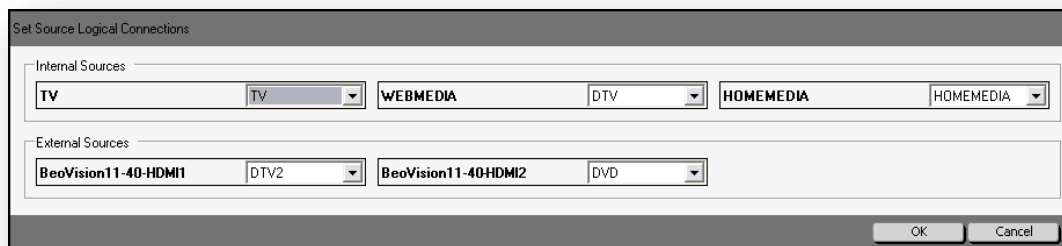
Setting logical connections

Usually the application will automatically find the best suited logical connection when a source is added to the product.



If you want to change a setting, right-click on the product and select **"Set Source Logical Connection"** from the menu. This will bring up a dialog with all connections.

BeoVision 11 and BeoPlay V1 allow changing of internal source's connection, other TVs don't. Sources used by older TVs and internal modules are displayed but are not selectable.



Add favourite products

You can add favourite products to your favourites list. Select a product from the B&O tab and right-click on the product, select **Add to Favourites**. Change the name if desired and click "OK". The product is now saved under the **Favourites** tab.

How to use templates?

It is possible to save often used product combinations, such as a BeoVision 7 and a set of BeoLab 8000.

When you have added the relevant products to a zone, click **Save Template** to save the particular zone with its product combination. A window save file dialog appears and you name the file. The next time you want to use the same product combination, select the product setup from the **Zones** tab and click **Add**.

BeoSound 5/BeoMaster 5 in Configuration Tool

You find the BeoSound 5 under "Audio" and then "BeoSound".

There are two profiles to choose from depending on the customer's setup:

1. Select "BeoSound 5" if the main room contains another Audio Master. The picture of BeoSound 5 is then placed next to the TV.
2. Select the profile "BeoSound 5 Audio Master" if *no other* Audio Master products are placed in the main room. The picture of BeoSound 5 is then placed in the position for the Audio Master for the zone. The Audio Master option must be set in the menus of BeoSound 5.

If the customer has only a BeoMaster 5, you can find it under "Video" > "Video Sources" > "BeoMedia" > "BeoMaster 5".

IMPORTANT! Regarding BeoMedia 1/BeoMaster 5, remember to check N.Radio and N.Music sources under "Product Data" if you want the sources to be available on the remote. This is necessary when you have an Audio Master in the system.

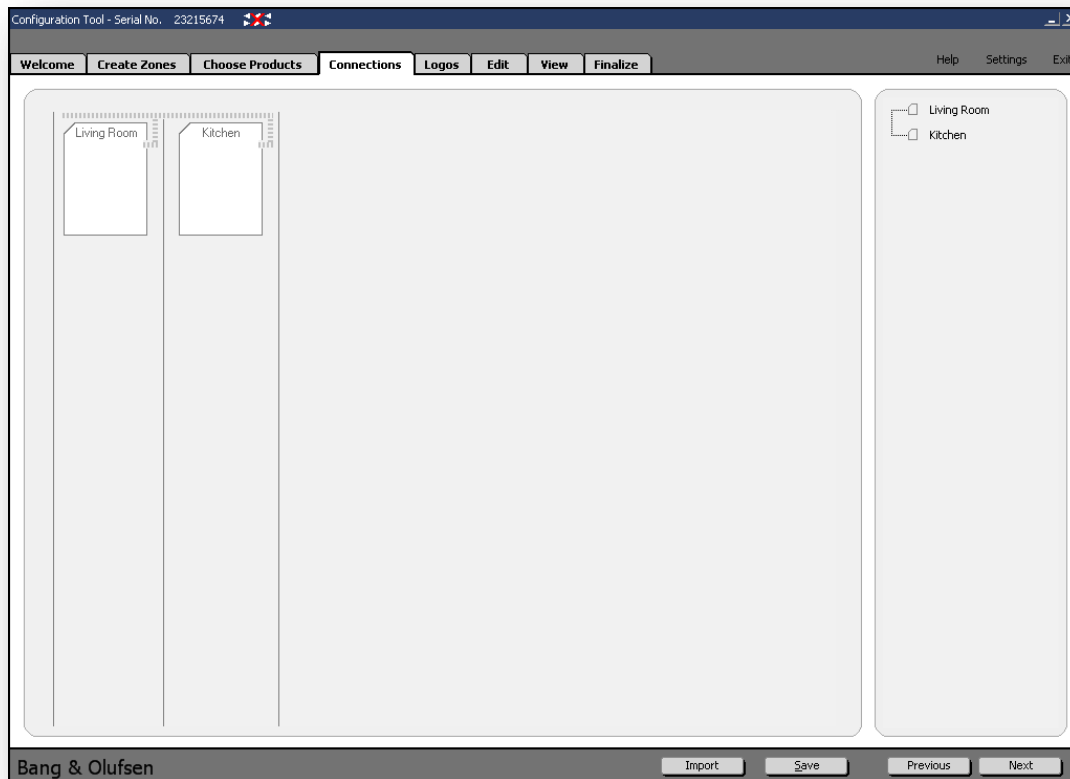
Additional changes

If you need to add an additional zone or if you need to change a zone name, you can also click the **Create Zones** tab. If you delete a zone, all products in this zone are also deleted.

Tip! It is a good idea to finish creating zone and adding products before beginning manually editing the configuration (in **Edit**). If you later on want to change the product setup, you may lose some of the changes made in **Edit**. Note that changing Master products later on will have huge consequences on changes made in **Edit**.

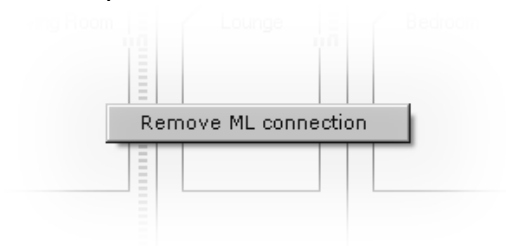
Connections

In **Connections**, you must determine whether previously created zones are included in a Master Link setup or not.



How to remove or add a Master Link connection?

You get the option **Remove ML connection**, if the zone you select and right-click on is already connected to the Master Link (ML).



You can also **Add ML connection**, if the zone you select and right-click is not connected to the Master Link.

IMPORTANT! It is not possible to remove Master Link from the zones containing the Video and Audio Masters. Also you cannot add Master Link to zones containing products that do not support Master Link.

If you do not want to make any changes to the default configuration set up by the Tool, you can go directly to the **Finalise** tab, and load the configuration to the remote.

You can also go back to **Create Zones** or **Choose Products** if needed.

Logos

In this step, you have several opportunities for finding and adding logos to the configuration.



The workflow for a new configuration is as follows and is explained below:

1. Choose the zone and source that you want to add logos to.
2. The template for the customer's provider is transferred to the channel list.
3. If the customer has other packages from the same provider, these will be merged with existing channel lists.
4. Unwanted logos are deleted or hidden.
5. Logos are arranged.
6. Channel numbers are entered.
7. Delay and end commands are set.
8. The channel list may be copied to similar sources in other zones.
9. Delay and end commands are set for these sources.

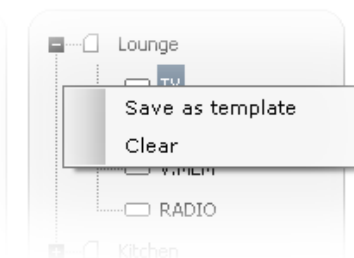
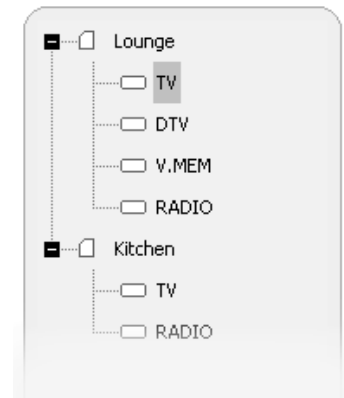
Zones and sources

In the tree menu, only sources containing logo buttons are depicted. The sources are organised under each zone. When you click on the + symbol next to a zone, the underlying structure appears.

Click on a source to see, which channel logos belong to the source.

To copy a channel list from one source to another, you drag and drop the origin source to the destination source.

By right-clicking on a source, you get a menu with options such as deleting a channel list from the source or saving a list as a template.



For each source it is possible to set the delay between the numbers that are sent. You can also choose whether or not to use a Play command in the end.

Delay	End Command
150	NONE

How to use the Logos tab?

You have four different ways of managing the logo information:

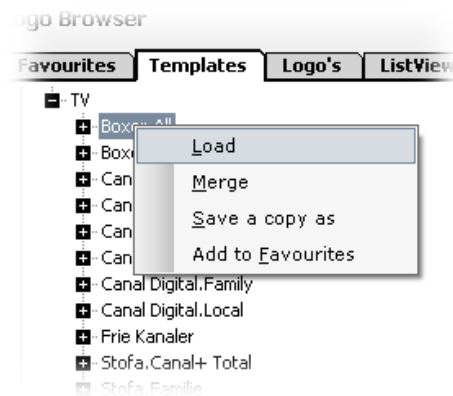
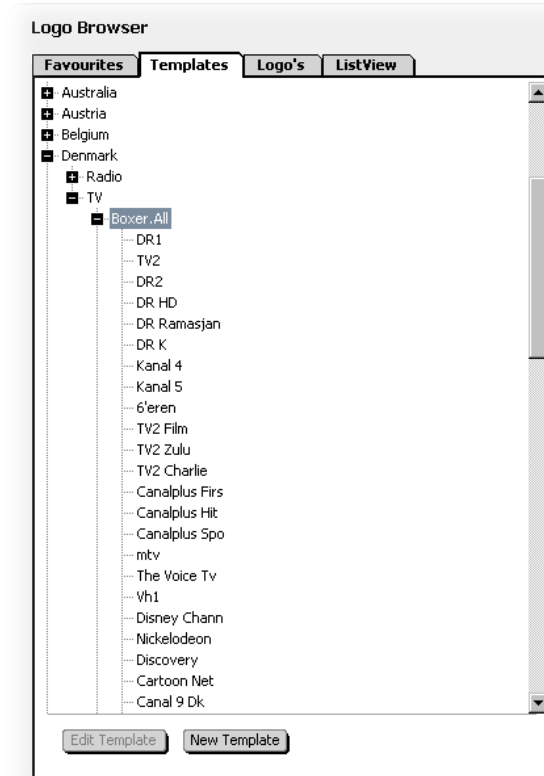


1. **Favourites**
A list of templates you use often.
2. **Templates**
A list of templates that is maintained by Bang & Olufsen. The templates are divided into countries, sources and providers. Your own templates are also saved here.
3. **Logos**
A search tool to find logos that are not part of a template.
4. **ListView**
A list of channels where it is very easy to enter the customer's preferred channel numbers.

How to use Bang & Olufsen templates?

For each country, there are a number of templates that list the current providers and their most popular packages. These templates are maintained by Bang & Olufsen.

You can add a template to the configuration by right-clicking on it and select **Load** or **Merge**.



You can also drag a template from the **Templates** list to the emulator.

If you have added logos to the source already, you will be asked if you want to replace or merge the logos.

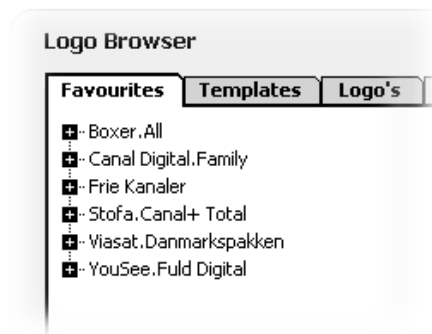


If you unfold the template completely, it is possible to drag and drop single channels to the emulator.

How to use favourite templates?

You can setup Favourite templates by right-clicking a template and then selecting **Add to Favourites** from the popup menu.

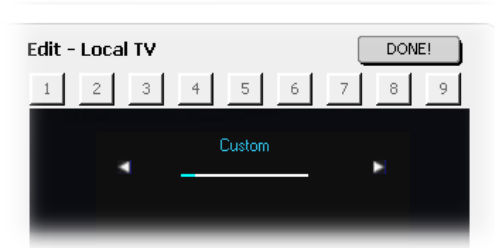
To use a template drag it from the **Favourites** list to the emulator.



How to create a new template?

Click on **New Template** to save a configuration as a template. Enter a name for the template and click the **OK** button.

The programme will change to edit mode. Now, you can add logos and set their position on the remote.

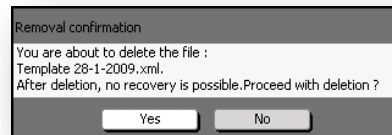


To leave edit mode, click **DONE!**

Tip! If you want a new template that suits the needs in your local area, you can either create a new template or use an existing one and modify it. Select **Save a copy as** when you right-click on a Bang & Olufsen provided template. Enter a new name for the template and click on the **OK** button. The copy will be placed at the top of the template list. This copy can be edited by selecting it and clicking on **Edit Template**.

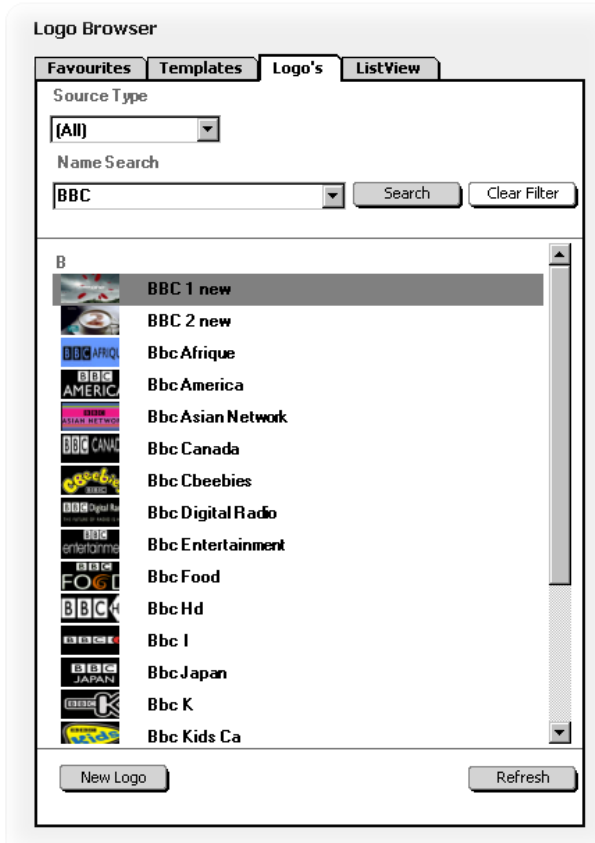
NOTE! The edit mode does not change the list of logos you had before you activated the edit mode. If you want to use the edited template, you must remember to add it to the configuration.

You can delete an existing template by right-clicking on it and select **Delete**. You are asked to confirm the action.



If you want to share a template with others, you can export the template to a file. The file is sent by e-mail and the receiver can then import the file to the Configuration Tool. Select a template and click on **Export** and name the file and location.

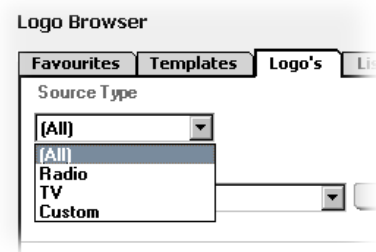
Logos



This tab is a search tool where you can find logos that are not part of a template.

The filters consist of two types: source filter and search field.

The source filter can be set to **(All)**, **Radio**, **TV** and **Custom**. This filter can be used to limit the results.



There are over 13,000 logos in the database.

The results can be narrowed down further by entering a channel name completely or a part of its name in **Name Search** and clicking **Search**.

You can reset the current selection by clicking **Clear Filter**.

In the result list, the logos are classified after initials. To jump in the list, press a letter, e.g. "d" on the keyboard and you are immediately presented with results beginning with the letter "d".

You can drag the logo from the result list to the emulator.

Tip! You can choose more than one logo at a time if you hold down "Ctrl" on the keyboard while you are clicking on the logos.

Add new Logo

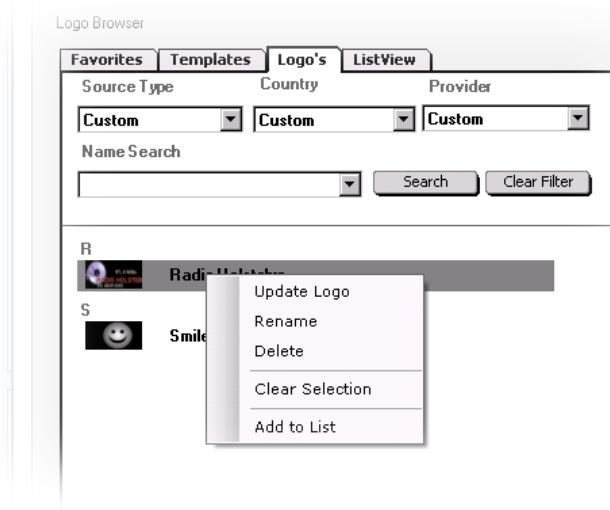
If you want to add a new logo, click on **New Logo**.

An open file dialog box appears and you select the logo you want to add.

IMPORTANT! A logo must be either in BMP or JPG format and must not be wider than 92 pixels and 44 pixels high. It is a good idea if the logo's background is optimised to a black background.



If a logo is too large, it may result in malfunction in the remote.



When a logo is imported it will automatically be copied to the logo folder, which is located in the programme folder on your computer.

You can always find your added logos by setting the **Source Type** in the index filter to **Custom**. If you right-click on a customised logo, you can rename or delete it.

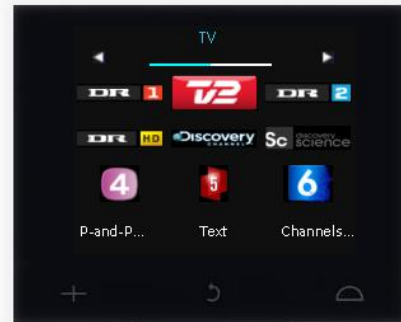
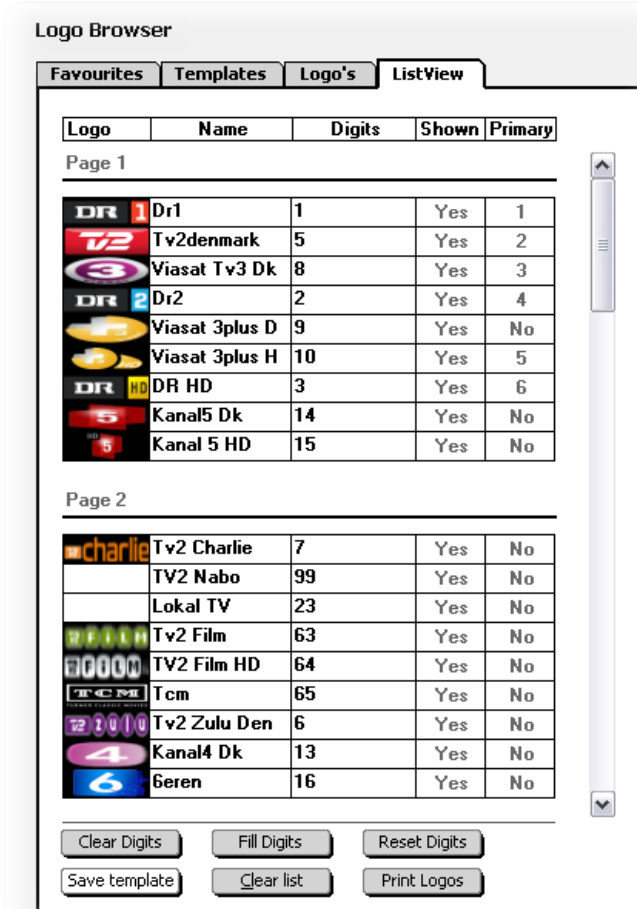
ListView

ListView presents a channel list and it is easy to enter the correct channel number when the channels have been placed on the pages.

The list contains e.g. **Name** and **Digits** for the channels. If you click in the **Digits** field and edit a number, press the return button on the keyboard to go to the next channel in the list. If you do not want to change a channel number, press the return button again to go to the next channel.

In the **Shown** field, you can select whether a logo should be shown or hidden.

In the **Primary** field, you can select up to twelve logos that should be shown on the source's primary page. The numbers indicate the logos' position on the primary page and are set or removed each time you click the field.



Example of primary page

If you want to save a programme list as a template, click on **Save Template** and name the template.

In connection with set-top boxes that have fixed channel numbers, it is an advantage to set the channel numbers and save the settings as a template since all channel numbers will be saved.

To delete a channel, right-click on the logo and select **Delete**.

Use **Clear Digits** to clear the channel numbers from the entire list. This is useful if you are in front of the customers TV and you are stepping through the channels. This way you will not forget any channels.

Reset digits re-numbers the channel numbers for the entire list starting with 1 at the top.

Fill digits fills empty channel numbers into the list.

Print logos will present the list of channels for the selected source, in your Web Browser. From here you can print it to your system printer. For best result, enable printing of background colours and images in the Web Browser settings.

Living Room Page 1		
	Dr1	1
	Tv2denmark	5
	Viasat Tv3 Dk	8
	Dr2	2
	Viasat 3plus D	9
	Viasat 3plus H	10
	DR HD	3
	Kanal5 Dk	14
	Kanal 5 HD	15

IMPORTANT! You can delete the list's content by clicking on **Clear List** but remember that all the content is deleted and you cannot undo the action.

Remote emulator

At this step, the emulator is locked to the channel list for the source that is selected in the tree menu.

You can look through the pages using the arrows on the emulator but you can also place the cursor over one of the nine pages buttons above the emulator to browse through the pages.

The page button above the emulator indicates how full a page is. A dark grey colour means that the page is full and a light grey colour means that the page is empty and you can insert more logo buttons.

If you want to move a logo button from one location to another on the same page, you drag the logo to the new location. An existing logo button will exchange places with the moved button.

There are three ways to move a logo button from one page to another:

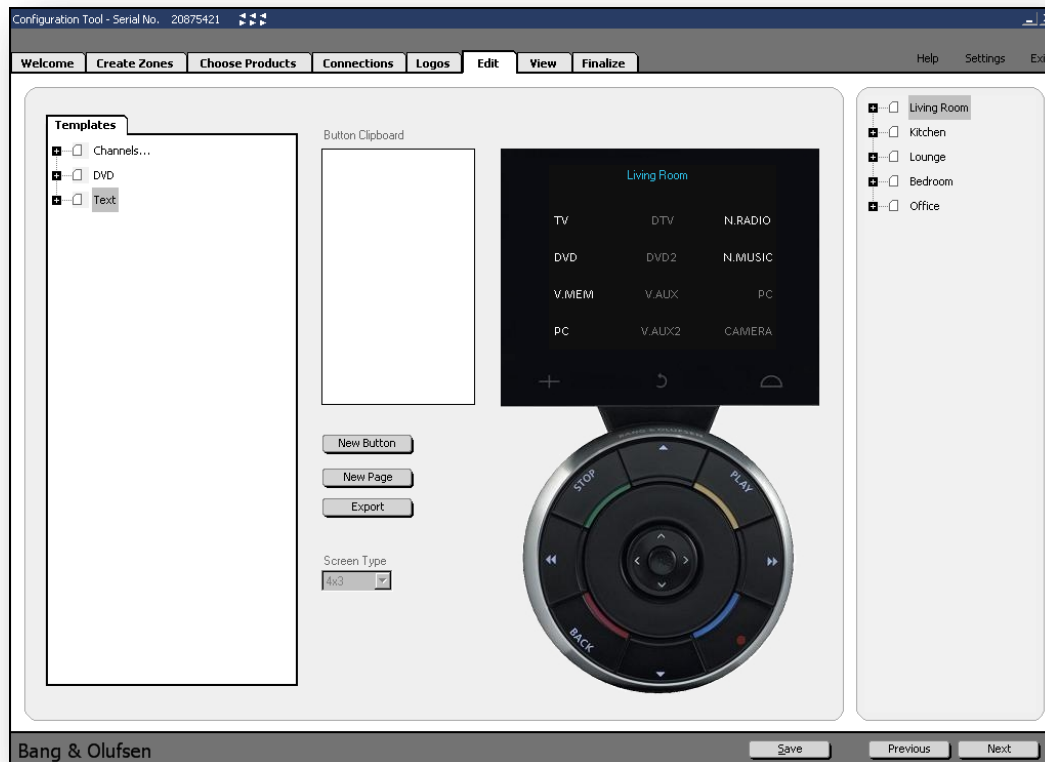
1. You can drag the logo button to the relevant page button above the emulator.
2. You can drag and drop the logo button from one page to another in the **ListView** tab.
3. From **ListView** you can drag a logo button over to the emulator.

To hide or delete a logo, you right-click on the logo button and select an action from the menu. When a logo button is hidden, it is shown in black and white colours.



Edit

At this step, the configuration has already been created. You can adjust the configuration by removing, modifying, hiding or showing buttons, changing IRs etc.



On the screen you have a remote which, with a few exceptions, looks like the customer's remote, when the configuration has been loaded. The biggest difference is that the display shows buttons which are hidden on the actual remote. The customer can later choose which buttons should be shown or hidden using the **Setup** menu on the remote. It is also possible to move buttons around, simply by dragging and dropping the buttons to another location on the screen, or to move them to the **Button Clipboard** box.

Use the **Button Clipboard** if you want to move a button from one page to another. Move the button into the clipboard, move to the next page or insert a new page and then drag the button back into the page.

NOTE! A button that has been moved to the clipboard is considered deleted and will disappear if you do not move it back to a page.

Tip! If all buttons on one page are hidden, the entire page will be hidden from the customer. This may be an advantage instead of deleting buttons.

How to use the Edit tabs

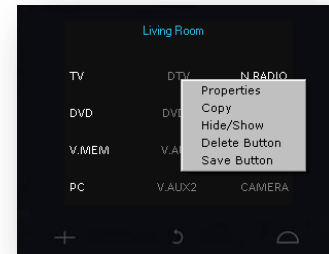
You can save a button and use it in other configuration by right-clicking on a button and select **Save Button**. The button is saved in **Templates**. You can use the button for another configuration. Click on the button and drag it to the emulator.

IMPORTANT! When you save a button, you also save the underlying structure.

Right-click menus

Right-click on a display button or on a button in the **Button Clipboard** field and select the option you want:

1. **Properties**
View the properties for the button as well as make adjustments.
2. **Copy**
Copy an existing button into the **Button Clipboard** field. There are some limitations as to which buttons you can copy. Some buttons require specific placement in the hierarchy.
3. **Hide/Show**
Hide and show buttons on the display. Buttons with white text are shown, and the buttons with grey text are hidden when the configuration is loaded onto the remote. The hidden buttons can later be shown by the customer directly on the remote (refer to the **View** chapter).
4. **Delete Button**
The deletion cannot be undone so do not delete source selection buttons like TV, DVD etc. The space where the button was will remain empty.
5. **Save Button**
The button is saved in the **Templates** tab.



NOTE! Deleting some buttons may cause errors during serialising.

Moving buttons

Buttons can be moved around on the emulator or to the **Button Clipboard** field.

Tip! Moving buttons to another source level may cause errors during serialising. You could consider copying the button instead since this minimises the risk of errors.

In most cases, the remote does not send any IR-command before a source has been selected. This is because at this point the remote does not know which "address" to send to. Moving buttons to a higher source level, e.g. **Zones...** on the remote together with the source selection buttons will most likely mean that no IR-commands are sent when pressing these buttons.

A solution may be to create a new button, and define the IR-command manually (see sections below).

New buttons and menus

Clicking **New Button** will open the **New Button** dialogue box.

Then you select the properties you want the button to have.

Click "OK" and a new button is created in the **Button Clipboard**.

Finally, drag and drop the button onto the remote display.

You can double-click a button to create a submenu. If the submenu is left empty, the submenu will disappear.

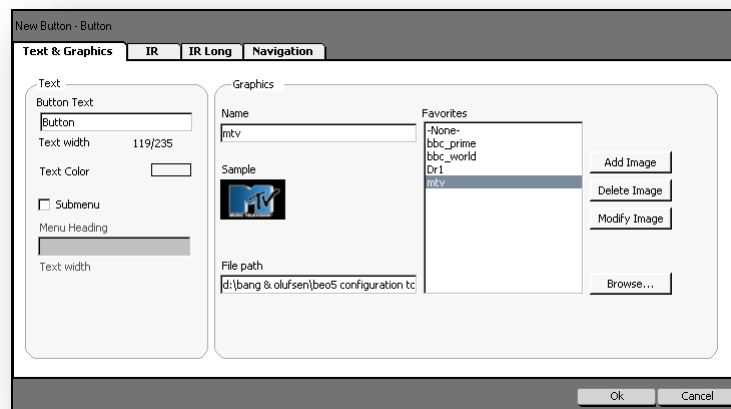
Click **New Page** to create a new page in the remote display. Then create or copy buttons to this page and arrange them in the preferred order.

New Button properties & Edit Button properties

It is possible to change most characteristics for a new or existing button. Some of these may require knowledge about Bang & Olufsen IR-codes. You enter the menu either by right-clicking any button and selecting **Properties** or by selecting a button and clicking on **New Button**.

Depending on the situation some tabs may be disabled.

1. Text & Graphics



In this tab, it is possible to edit the text used on the button, and the text used as menu header for a submenu, if any. For normal buttons, it is only necessary to fill in the **Button Text**.

The width of the text is calculated by the Tool and can be seen to the right of the text box together with the maximum width.

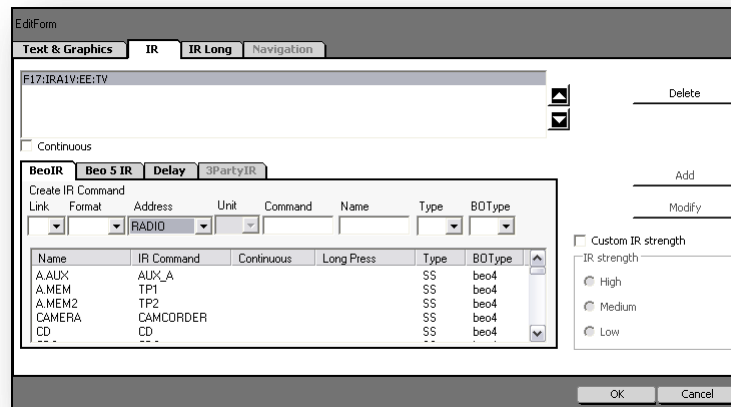
The text colour can be changed by clicking on the small box **Text Colour**.

Check **Submenu** and set the **Menu Heading** if you want to define a button with a submenu.

To add Graphics to the button, either use one of the Favourites by clicking on it in the list or use the browse button to find a new image file. When the image is selected, remember to click **Add Image**.

Tip! It's possible to select multiple images in the open image dialog. New images are copied to the custom folder in the tool.

2. IR



In the **IR** tab, it is possible to add and edit the IR-commands sent when a button is pressed. Some knowledge of the Bang & Olufsen IR-codes is an advantage. The IR tab is not accessible, if **Advanced** is active (refer to **5. Advanced**).

The first box shows a list of the IR-commands sent. It is possible to select a command, and delete it or modify it or move its position in the list.

Bang & Olufsen IR-codes for 'BeoIR' tab

- **Link** is used to select and operate the Master sources from a Link room, and to operate products in Option 4 in the Main room.
- IR **Format** is almost always 000. Format 001 is only used together with the VTR IR-command to select the DVD2 source.
- **Address** will usually be set depending on the source. TV is used for video sources and Radio for audio sources. However, other options are possible.
- **Command** is the most vital part of the IR-command. It will tell the device what action to perform. The names of the IR-commands are not always logical. As a help you can use both **Command** and **Name** to search for the right command. E.g. the IR-command for sending the digit 3 is CIFFER_3. Enter "3" in the **Name** field and the Tool will eliminate all commands that do not start with "3".
- **Type** can be used to limit the number of commands in the search:
 - DG = Digits
 - SS = Source Selection
 - SC = Source Control
 - HK = Hard Keys
 - 4Ex = Beo4 Extended Commands
 - Type is not a part of the IR-commands itself, only a way to limit the search results
- **BOType** is for future use, when new Bang & Olufsen IR-formats are introduced.

Bang & Olufsen IR-codes for 'Beo 5 IR' tab

- **Format** is used to select IR format. F17 is most commonly used format, but it doesn't support absolute source selection (e.g. TV2, DVD4) it only supports selecting the default source (e.g. TV, DVD). F20 is used for absolute source selection; it has 3 extra bits for unit. FDA is used for sending commands in data format and is almost never used.
- **IR Address** is used to define the address of the IR listening device, but currently only IRA1 and IRA2 are in use. Most of the time IRA1 is used, but when the product is in option 4, then IRA2 is used. IRA1 responds to Beo4 sending without link-bit and IRA2 responds to Beo4 sending with link-bit.
- **AV Bit** defines which address to use, video or audio address.
- **EE Flags** are extension bits reserved for future use, so for now EE_FLAGS_00 is the recommended value.
- **Unit** is for defining which source to select and is used with F20 IR format. F20 allows up to 8 of the same source, so unit 0 responds to index 1 (e.g. TV or TV1).
- **Command** tells the device what action to perform.

When the IR-command is found, you can select it and click **Add**.

This way it is possible to put together several commands into a macro, e.g. select DVD, dim light and lower temperature.

Modifying is done by selecting the command you want to change, search and find the replacement, select it and click **Modify**.

If you need the last command to be sent as long as the button is pressed, the **Continuous** checkbox must be checked.

Delay

It is possible to enter a delay between commands. Click on the **Delay** tab and select a delay from the list. Possible values are from 50 to 3000 milliseconds.

Delays can be combined if necessary.

3-Party IR

IR-commands can be added to a macro if any non-Bang & Olufsen accessories are added to the configuration in **Choose Products**.

Custom IR strength

Enable this and select the desired strength. Please note this setting will only apply to the button being edited.

3. IR Long

The screenshot shows the 'New Button - Button' dialog box with the 'IR Long' tab selected. The 'Text & Graphics' tab is also visible. The 'IR Long' tab contains a 'Create IR Command' section with fields for Link, Format, Address, Unit, Command, Name, Type, and BOType. Below this is a table with columns: Name, IR Command, Continuous, Long Press, Type, and BOType. The table contains one row: Standby, STANDBY, Continuous, ALL_STANDBY, HK, beo4. There are 'Delete', 'Add', and 'Modify' buttons on the right side of the dialog box. The 'OK' and 'Cancel' buttons are at the bottom right.

This is the same as **IR**, except that the IR-command sent on a long press (press and hold a button for more than 2 seconds).

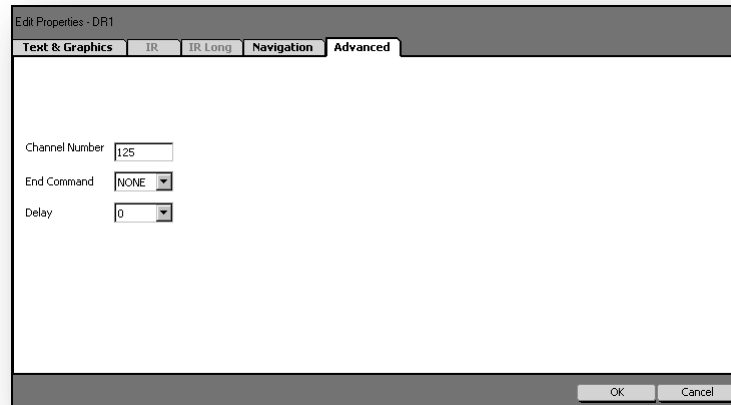
4. Navigation

The screenshot shows the 'New Button - Button' dialog box with the 'Navigation' tab selected. The 'Text & Graphics' tab is also visible. The 'Navigation' tab contains a 'Beo5 Menu Tree' on the left and a 'Navigation on button release' section on the right. The 'Beo5 Menu Tree' shows a hierarchy of menu items: V.MEM, DTV2, PC, CAMERA, Scene, Picture..., Speaker..., AST, Stand..., and RADIO. The 'Navigation on button release' section has four radio buttons: Go up, Go back, Navigate to absolute menu (selected), and Navigate to absolute menu(Setup Mode). Below these is a text box showing the path: MAIN -> Scene -> Stand... The 'OK' and 'Cancel' buttons are at the bottom right.

Navigation is executed when you press a button. There are several ways to use navigation:

- **Go up** moves up the number of levels in the tree hierarchy which you have been entered in the box at the bottom of the dialog. The value 1 means 'stay on the location'.
- **Go back** skips the number of operations back in the user's latest operation as indicated in the lower box. The value 1 means stay on the location.
- **Navigate to absolute menu** jumps to the place in the menu structure selected in the tree to the left. The path is displayed in the lower box.
- **Navigate to absolute menu (Setup Mode)** acts like the **Navigate to absolute menu** but jumps to the location in setup mode. This can provide easy access to e.g. edit channel in the configuration.

5. Advanced



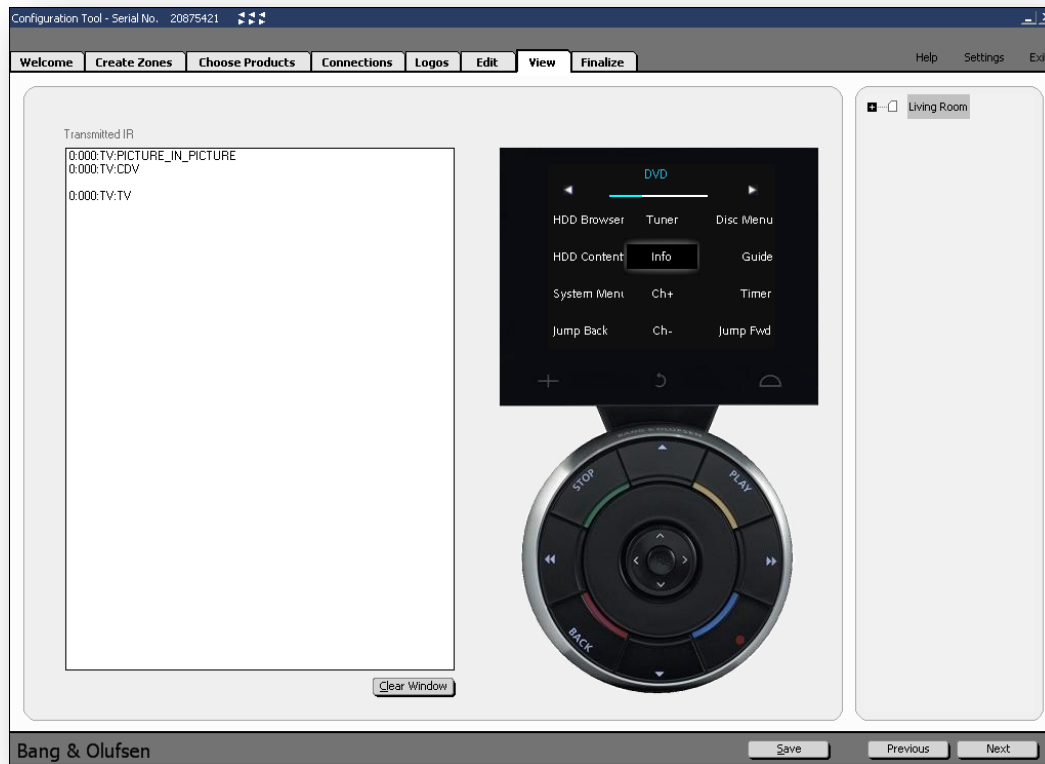
The screenshot shows a dialog box titled "Edit Properties - DR1". It has four tabs: "Text & Graphics", "IR", "IR Long", and "Advanced". The "Advanced" tab is selected. Inside the dialog, there are three settings: "Channel Number" with a text input field containing "125", "End Command" with a dropdown menu showing "NONE", and "Delay" with a dropdown menu showing "0". At the bottom right, there are "OK" and "Cancel" buttons.

This tab is only visible when Channels/Stations are edited. You can change a channel number or set **End Command** and **Delay** for each single channel.

NOTE! If you have modified the positions or properties of buttons, these new settings are saved even if you return to one of the previous tabs. However, if you make changes to the product setup that conflict with these button modifications, all changes made in **Edit** will be deleted and reset to default.

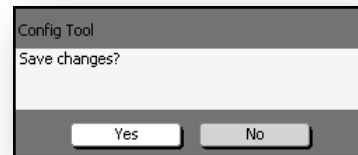
View

At this step, the configuration has already been created and you can now simulate the behaviour of the real remote when the current configuration is loaded into it.



If you go to this tab and have unsaved changes you will be reminded with a popup dialog.

The configuration is not changed if you return to **Edit**.



Buttons that are hidden will not be visible in this view.

The text box shows which IR-commands are sent when you press a specific button on the display or on the ball of the remote.

Click **Clear Window** to empty the IR text edit shown in the left side of the screen.

Tip! To open the **Setup** menu, you must press [•] while holding down the “Ctrl” button on your computer keyboard.

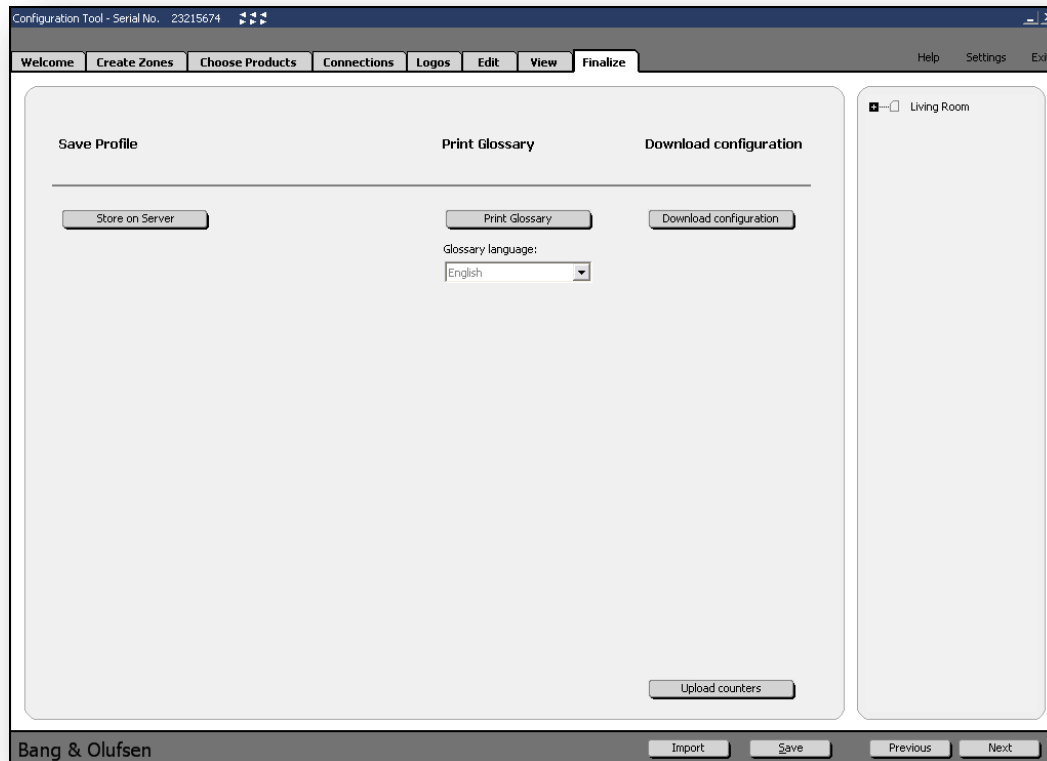
Returning to Choose Products, Create Zone or Welcome

If you return to one of these previous tabs, and you have manually modified any IR-commands in **Edit**, these modifications may be lost.

If you have modified the positions or properties of buttons, these new settings are saved even if you return to one of the previous steps. However, if you make changes to the product setup that conflict with these modifications, all changes made in **Edit** will be deleted and reset to default.

Finalize

In this step, you load the finished configuration onto the remote. This step also provides you with some additional features, such as printing a configuration outline and glossary to the customer and synchronising the configuration with the Bang & Olufsen database.



Store on Server

When clicking on **Store on Server**, you will store the configuration with the serial number defined in **Welcome**.

If you are logged in, the configuration will be synchronised with the Bang & Olufsen database.

If you are working offline, the configuration is saved on your own computer.

We recommend that you save configurations on the server.

Upload counters; upload the counters from the docked remote to the server. These values can be used for analysis by Bang & Olufsen.

Synchronisation with server

You may choose to synchronise with the Bang & Olufsen database for various reasons:

1. To use the server as back-up for all your configurations. If you lose your PC or your data, you will always be able to retrieve your configurations from the Bang & Olufsen database.

2. If you want other people, e.g. staff or technicians to have access to your configurations, this can be achieved through the Bang & Olufsen database.

NOTE! Your own logos for channels and buttons are not stored on the server.

Print Glossary

Click **Print Glossary** to generate a PDF/HTML of the menu hierarchy including a glossary for the customer.

The menu hierarchy is built for the specific customer's configuration, and can be printed or saved to a file and handed over to the customer.

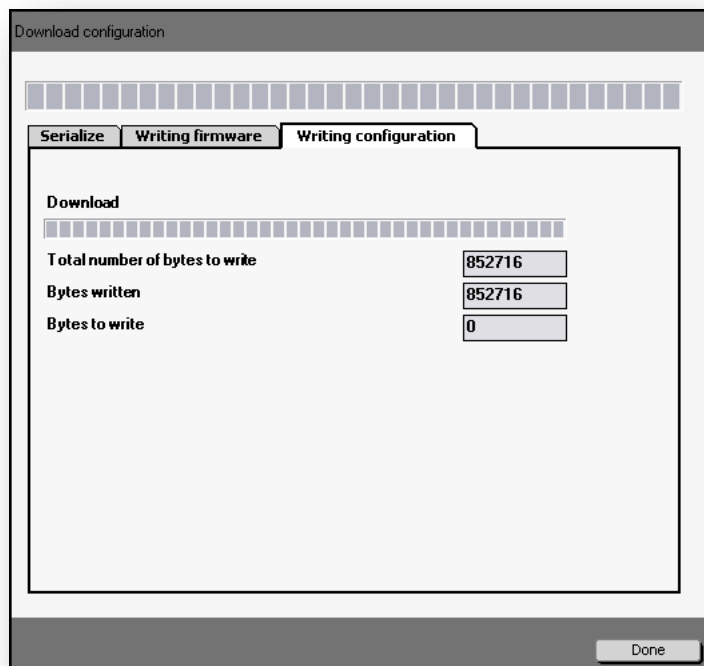
The customer's preferred language can be selected in the drop-down menu, and the glossary will be translated into this language.

Download Configuration

Click **Download Configuration** to build the configuration and send it to the remote.

NOTE! It takes a while to build the configuration file and send it to the flash memory inside the remote.

Wait for the **Done** button to appear, before removing the remote from the docking station.



Update Firmware

If new firmware is available, you will be asked to update Beo5/Beo6. Do not start a firmware update if the remote requires charging or it is not in the docking station.

IMPORTANT! Do not remove the remote from the docking station while loading firmware or configuration.

Serialisation with errors

Building the configuration file for Beo5/Beo6 may result in a "**Serialisation with errors**" message. This usually happens when links in the configuration have become invalid, and the building process therefore cannot interpret certain parts of the configuration.

These errors usually occur when source selection buttons are deleted or moved from

their original position in the menu hierarchy. In **P-and-P** and **AV** menus, the links for the source menus are corrupted.

It can be very difficult to read the error log, and in most cases it is necessary to start over with the entire configuration or to re-build the defective zone.

USB communication errors

The following errors usually occur if the PC has lost the USB connection to the remote; **“Cannot write to device”** or **“Write Timeout”**. This does not show in the “Remote connected” icon in the application since Windows does not recognise the missing connection the same way as if you remove the remote from the docking station.

If the errors occur, you must reconnect the remote. There are several ways to improve the USB stability. For example use a short USB cable or a USB Adaptor to connect the PC with the docking station. Or try to use another docking station if you have one. Also it sometimes helps to hold the remote after placing it in the docking station, while trying to send the configuration again.

In the latest version of the Configuration Tool, the messages **“USB transfer too long”** or **“The configuration is too big”** are replaced by **“The configuration is too big”**. This error occurs if the configuration is too big to fit in the remote memory. Depending on the products and the complexity of the setup, you may reach this limit with everything between 8 to 20 zones. As a general rule, the file **“Serialize.bin”** must not exceed 2MB.