# MagicTouch 3
# Manual

CCS

docWorks

# Contents

# 1 Introduction

**MagicTouch**

Last updated: 03/10/2020

Download the latest release of this file from the CCS Extranet https://extranet.content-conversion.com/CE/SitePages/Downloads.aspx.

Thank you for your purchase of a MagicBox® and welcome to MagicTouch, a custom-built content management system that let's you easily prepare content to be displayed on the MagicBox® or another touch display.

Typical for MagicTouch is its "tile design", a set of up to 4 clearly-arranged square touch points that offers the user a clear choice of options and lets him or her easily navigate the content on display.
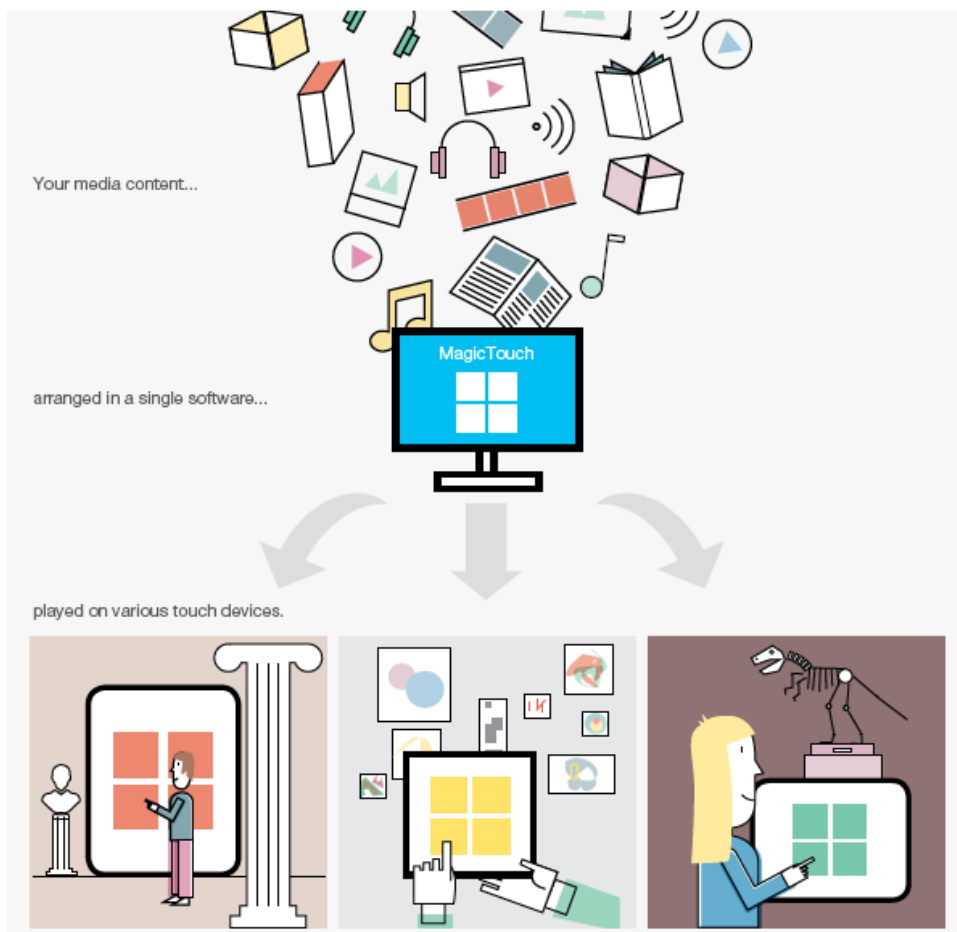


Please read the manual to make yourself comfortable with MagicTouch.

# 2 Technology and system requirements

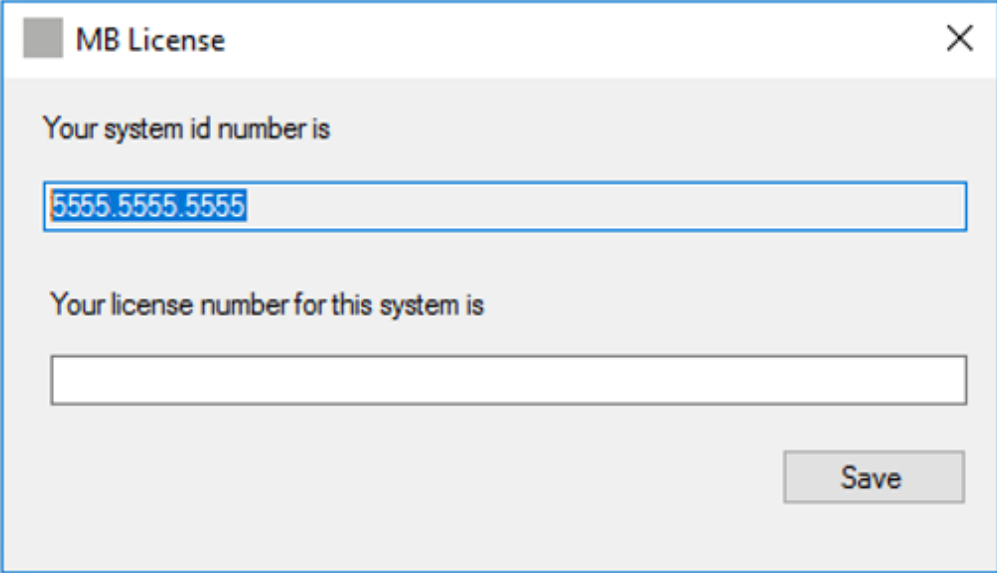| | |
|---|---|
| **Supported formats** | MP4, AVI, MOV, WMV, JPG, TIF, PNG, JP2, BMP, GIF, XML, 3DS, PDF |
| **Recommended screen specs** | Full HD (1920 x 1080 px) with multitouch 2 or higher |
| **Minimum system requirements** | Processor: Celeron N3450 (4 cores, Baseclock 1.1Ghz, turbo 1.6 Ghz) or higher |
| | Graphics: Intel HD Graphics 1GB or higher |
| | RAM memory: 4GB DIMM DDR3 clocked @ 1600 MHz or higher |
| | Minimum of 2 GB free space |
| | Hard disk: SSD Sata 3.0 600MB/s or faster |
| **Supported operating systems** | Windows 10 |
| **Internet connection** | Mandatory for IIIF features, else is optional |

**License**

**Trial version** - is valid for 30 days. The software can be tested on different hard disks, but the maximum period of 30 days does not extend.

**Normal version** - here you need a license key that you get from CCS. Send your system number to CCS and a license key will be generated. The license is registered exactly on this computer (hard disk) or USB stick. When changing to another hard disk, a new license key must be requested.



**Multiple presentations**

The MagicTouch directory can be copied to create multiple presentations. The license chosen will not be affected.

It is recommended to copy the original directory as a backup.

**Commands** - only professionals should be able to do this because the wrong command can also "break" the computer

**Install presentation** - copies everything to the desired location and places e.g. shortcuts on the desktop

# 3 Installation / Deinstallation

The setup includes the unlimited version for all maintenance customers and a 30-day trial version for all interested parties.

Download the software from CCS Extranet https://extranet.content-conversion.com/CE/SitePages/Downloads.aspxt and double-click to open the installation wizard that will guide you through the installation process.

MagicTouch software needs a folder in which the installation will be done (for example, MBTouch).

Setup does not allow installations on Root paths (for example, C:\, D:\, E:\). You have to select an installation folder.

The setup process will check if a MagicTouch installation already exists on the destination.

- In case there is a previous installation on this location the next dialog will also give the possibility to update MagicTouch without removing the previous presentation data.
- If there is no previous installation on the selected location the Update button will be disabled.

After the install process the shortcuts to MagicTouch are displayed on the Desktop

**Note for Deinstallation:**
- Deinstallations are not handled directly by the setup. MagicTouch Setup won't make changes to the registry and the application won't be able to be deinstalled from Windows Control Panel.
- To delete a MagicTouch installation and all its associated presentation files simply remove manually the folder in which MagicTouch software is installed.
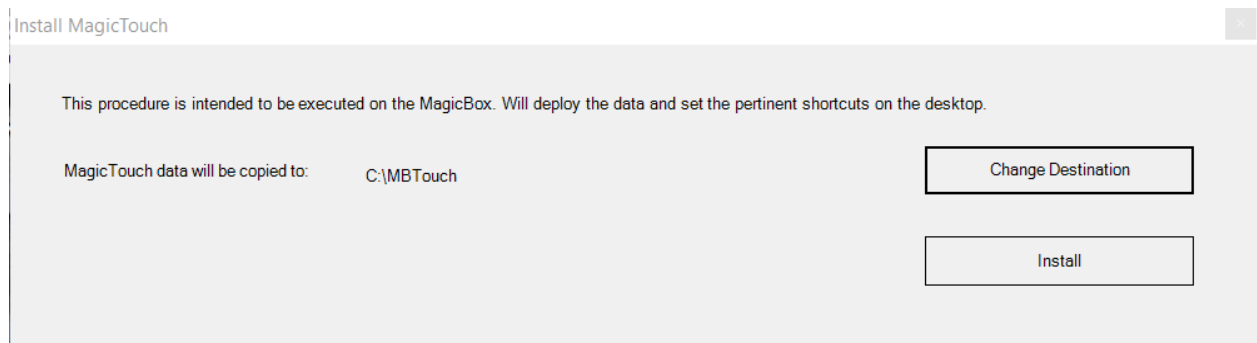
# 4 Welcome screen

When starting the MagicTouch software it will normally take you directly to the MagicTouch Control center. In some instances though, the following screen will appear.
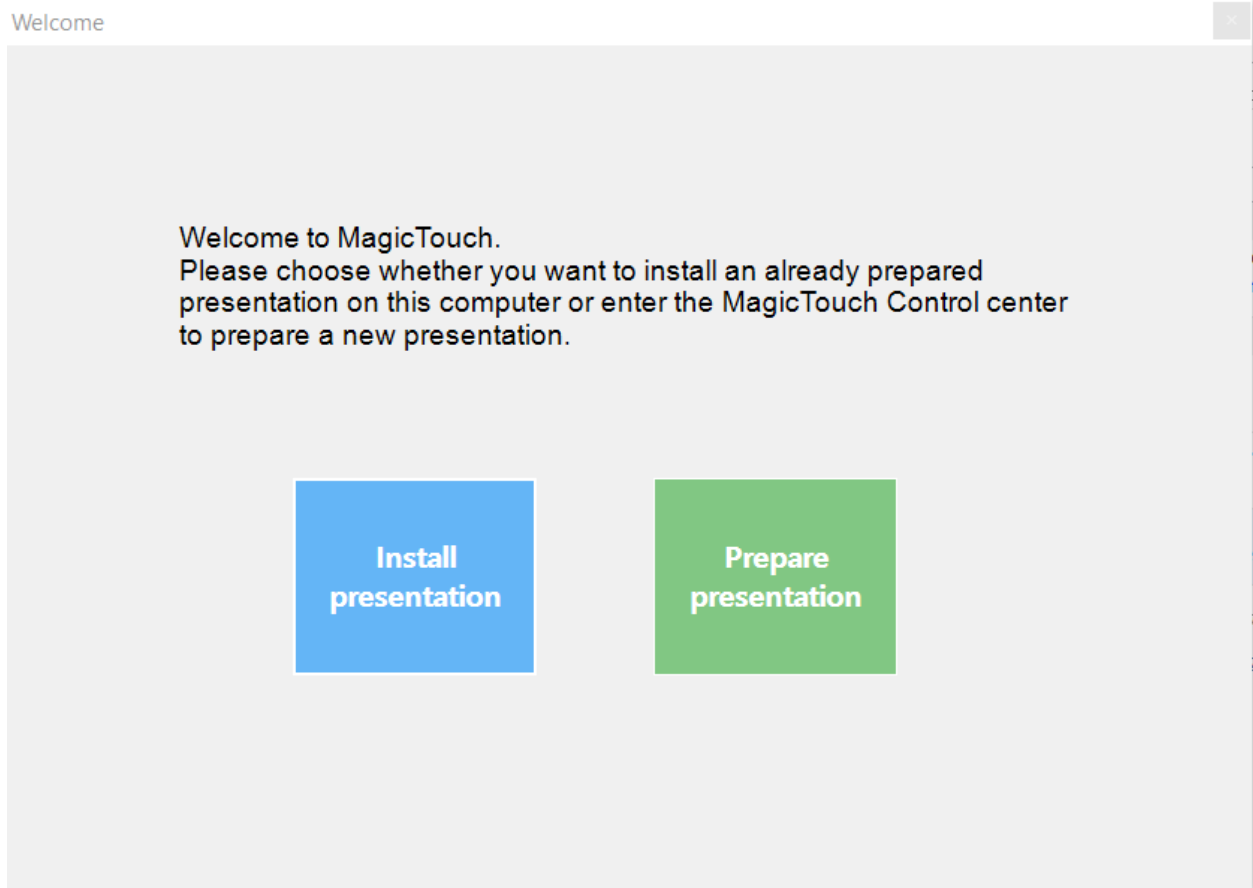


This happens for example when you open the software on a USB stick, because you prepared a presentation on your desktop computer and now want to install it on the MagicBox® computer.

**(1) Install presentation**

Click the blue "Install presentation" button if you want to install an already prepared presentation on the computer. In the following popup dialogue, select the destination of the installation and click "Install" to save the presentation to the chosen destination.

Install MagicTouch

This procedure is intended to be executed on the MagicBox. Will deploy the data and set the pertinent shortcuts on the desktop.

MagicTouch data will be copied to:        C:\MBTouch

[Change Destination]

[Install]

## (2) Prepare presentation

If the Welcome screen appears and you don't yet have a presentation to install, click the green "Prepare presentation" button to prepare or edit a presentation. Clicking "Prepare presentation" will take you to the MagicTouch Control Center.

# 5 The MagicTouch Control Center
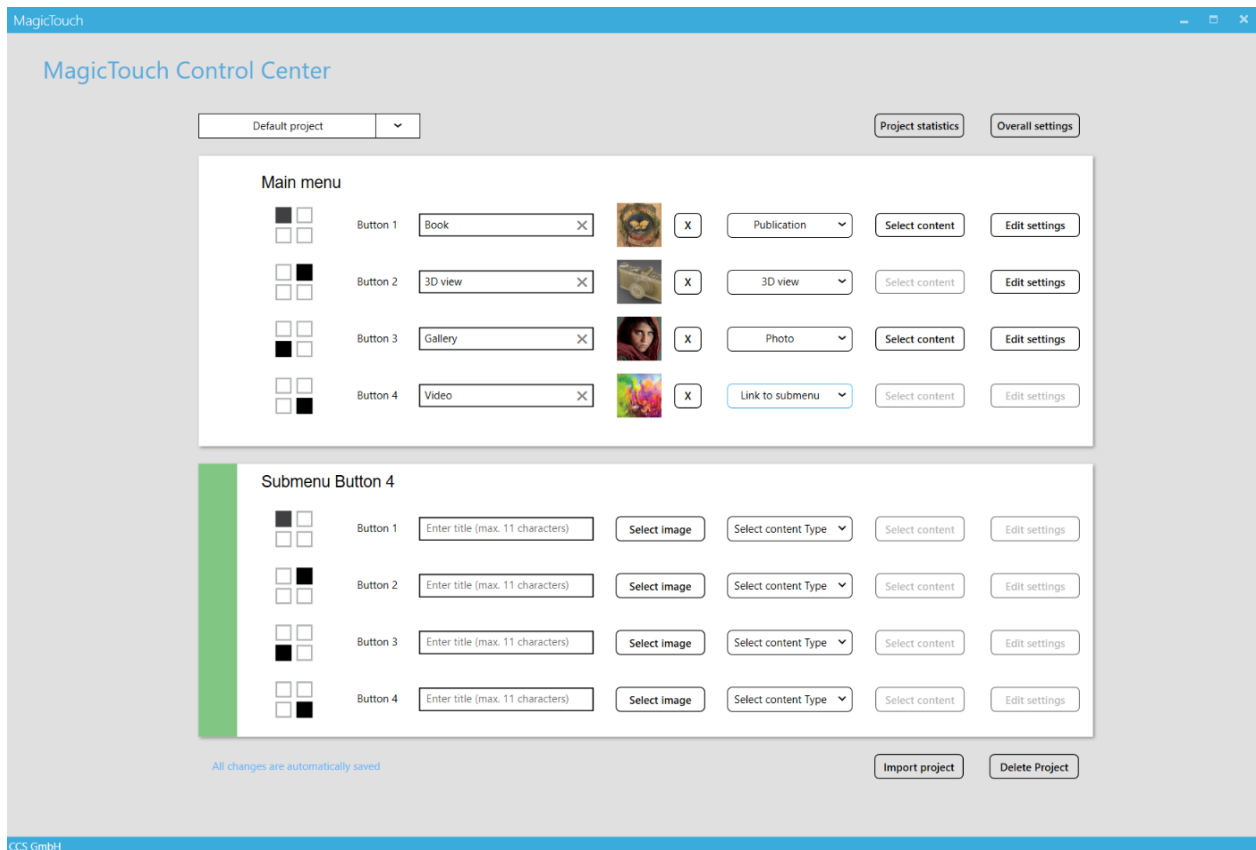


The MagicTouch Control Center is where you arrange and edit the presentation you eventually want to display on the MagicBox®. When opening the MagicTouch Control Center you will see the above displayed interface for your "Main menu", the characteristic four tiles that are shown on the MagicTouch Display. In the MagicTouch Control Center you can edit the content of each tile. All changes will be saved automatically.

**Add new project**

Add or select different projects. Projects can be created (at least one project definition is required. The selected project in the dropdown will be the active project to display when accessing the interface).

**Project statistics**

Generate statistics by views, visitors and by button. See Statistics - Details (on page 28)

**Enter title**

Here you can edit the overlay text of each button. The maximum number of characters is 11, the default color is white. You can also leave this field blank, i.e. if you have inserted the title in the background image of each tile.

## Main menu

| ■ □ |  | Button 1 | Enter title (max. 11 characters) |
| □ □ |  |  |  |

**Select image**

Here you can select the background image for each tile (minimum size of image: 300 x 300 pixel). In case the image is not a square, it will be automatically resized to fit the tile. Delete existing images by the X beside the image thumbnail.

Animated gifs (recommendation: less than 500KB) can be used for menu buttons, too.

## Main menu

| ■ □ | Button 1 | Enter title (max. 11 characters) | Select image |
| □ □ |  |  |  |
| □ ■ | Button 2 | 3D view ✕ |  ✕ |
| □ □ |  |  |  |

**Type of content**

Here you can choose the type of content that you want to display for each tile:

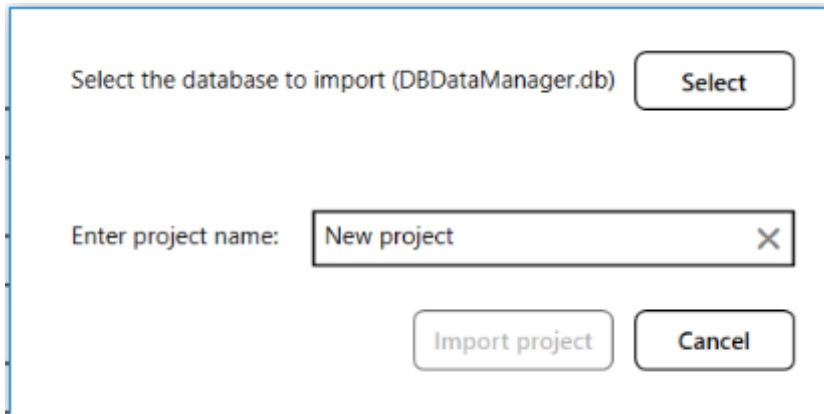| | |
|---|---|
| **None** | No content will be displayed |
| **Publication** | Applies a "Book flip" to the content |
| **3D view** | Indicates the display of 3D rendering models |
| **Photo** | Displays content in a photo gallery |
| **Video** | Indicates the display of video material |
| **Map** | New content type and views (alpha status). Suitable for including big single images. Elements included as map have a smaller compression level. |
| **docWorks** | Applies a "Book flip" to the content and indicates the availability of docWorks meta data |
| **Command** | Allows to insert a command line, i.e. for special software applications |
| **Browser** | Use a browser as a content for a button. The default URL for the browser is defined via Control Center. Default (IE) and Chromium. |
| **Link to submenu** | Will link the tile button to a sub-menu consisting of another set of 4 tiles |

**Select content**

Here you can select and upload the content you want to display under the respective tile (see below for detailed information).

**Settings**

Here you can adjust the settings for each tile and content type (see below for detailed information).

**Import project**

Import an already created project in MagicTouch version 2.0:



Select DBDataManger.db from <version>\app\Resources\Custom\... folder. Beside locally stored projects also mapped network paths can be used to import projects.

**Rename**

To change a name of an integrated media (photo, video, ...) select the desired media in the content dialog and enter/adapt the title, click on save.

## 5.1 Select content – Details

When clicking "Select content" in the MagicTouch Control Center a popup dialog will open where you can view, add and delete content.
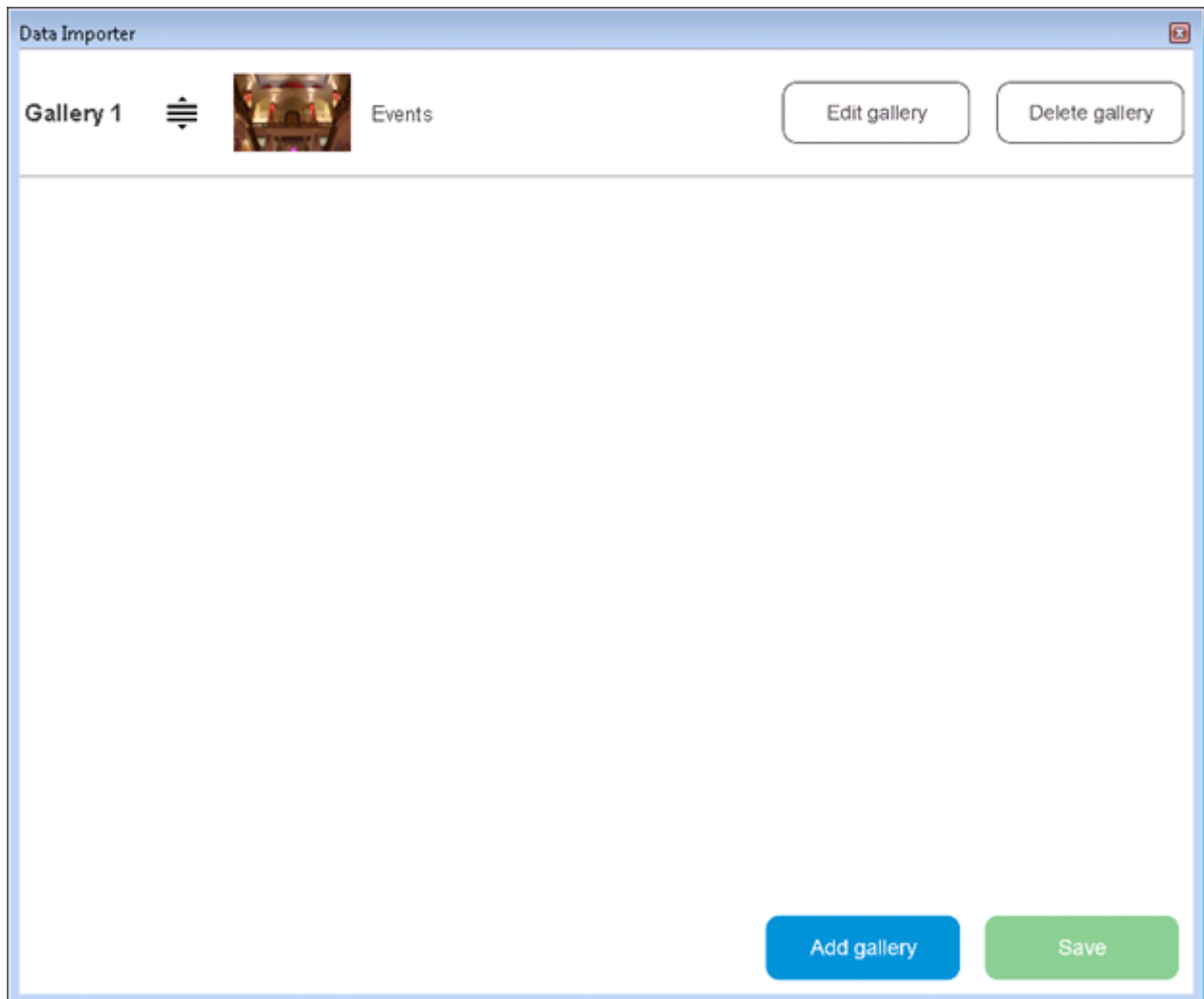


The popup looks the same no matter what type of content you want to upload. Only the description of the "Add" and "Delete" buttons will change according to the selected content type. The supported formats for each content types are the following:

1. Publication JPG, JP2, TIF, PNG, BMP, GIF, PDF

2. 3D view 3DS, OBJ

3. Photo JPG, JP2, JPEG, TIF, TIFF, PNG, BMP, GIF, PDF

4. Video MP4, AVI, MOV, WMV

5. Maps JPG, JP2, TIF, PNG, BMP

6. Browser

7. docWorks XML

Please note that in "**Publication**" and "**Photo**" you do not upload single images, but folders containing the images of the publication or the photo gallery.

Please prepare the content prior to uploading it, so all images in the folder are final and in the right order. For example, if you want to upload "Publication XY", create a folder "Publication XY" on your desktop and move all page images of that publication into this folder. Make sure that all pages are complete and in the right order. When adding the publication, click on "Add publication" and select folder "Publication XY". The publication will then appear in the list. If wanted, you are now able to change the title of the publication, for example from "Publication XY" to "Publication YZ", by double clicking the title field.

PDFs (single or multiple paged) will work on the same way as the other image types (.jpg, .tiff, …). If the PDFs are multi-paged all their images will be extracted.

Once you uploaded all publications click "Save" — MagicTouch will then automatically convert all data according to the MagicTouch requirements. A progress indicator is shown "Preparing element x of y" during import.
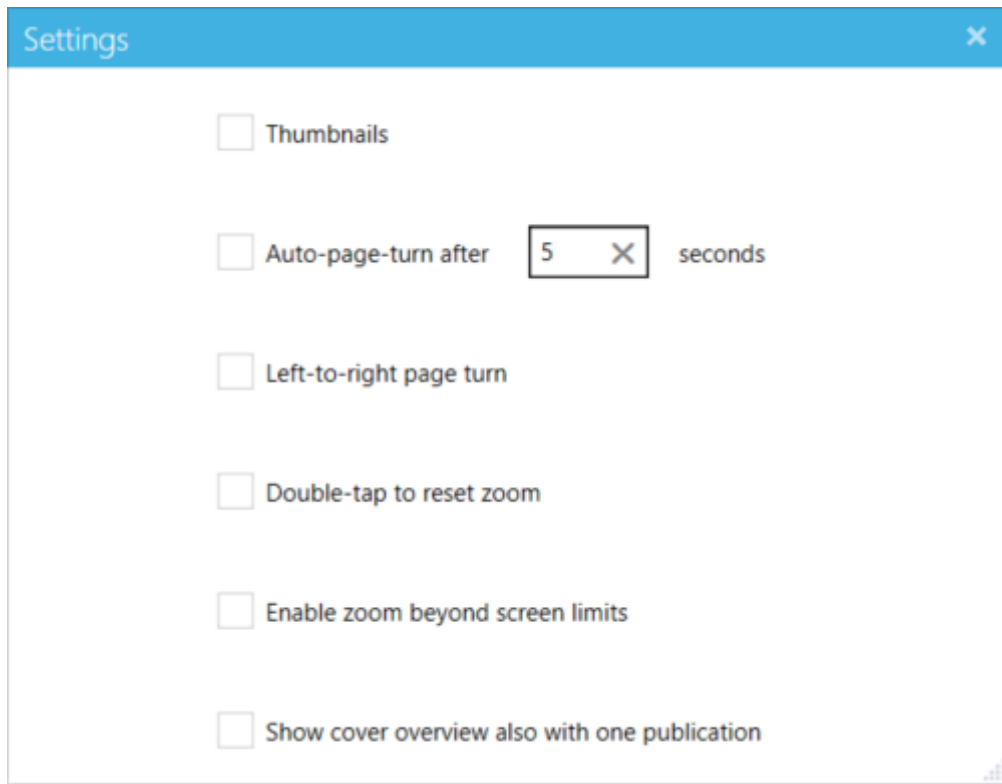
Added content can be sorted via drag-and-drop directly on the content list (maps, videos, photos, docworks, publications).
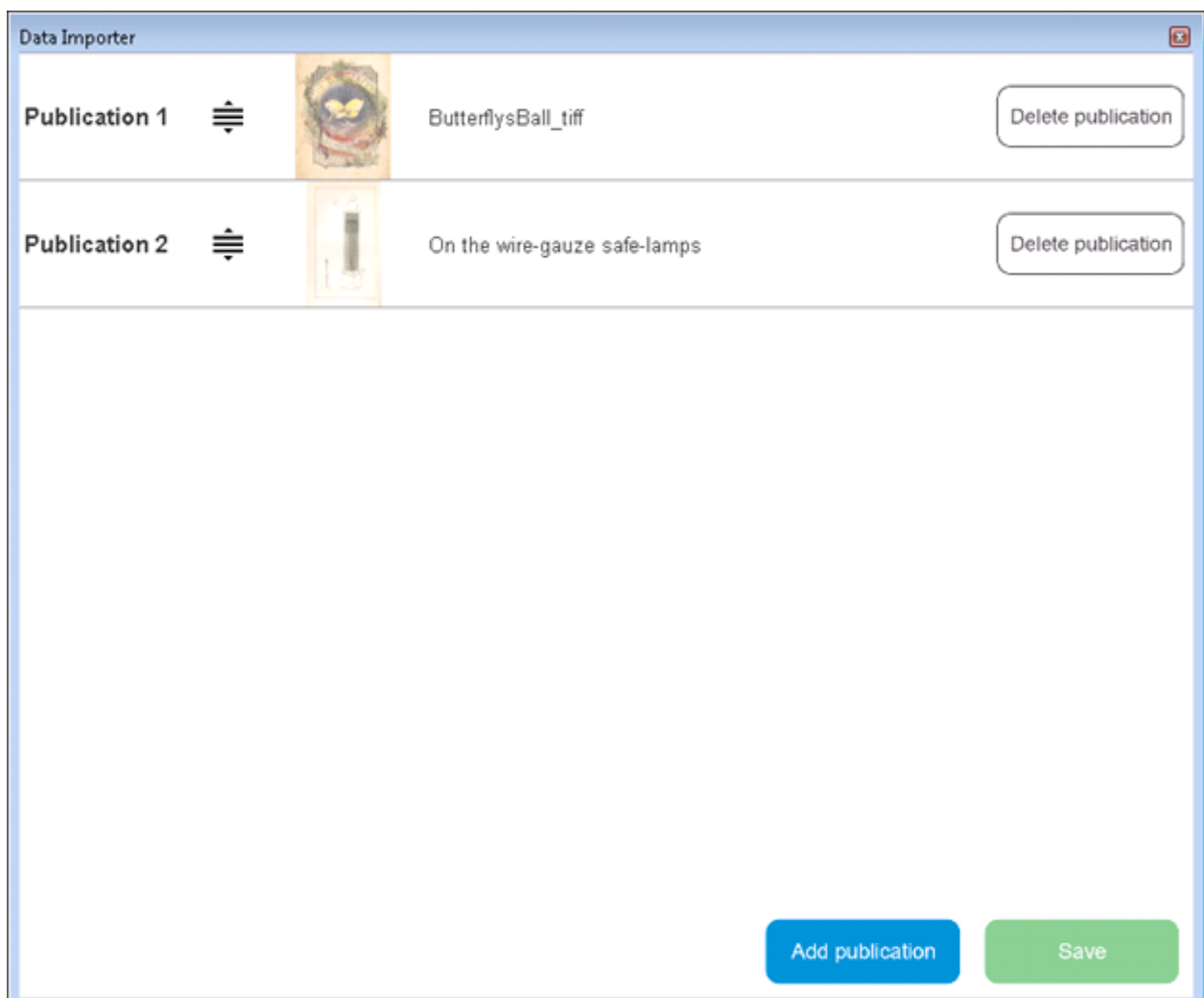
## 5.2   Edit settings – Details

Clicking "Edit settings" in the MagicTouch Control Center will show a popup dialog with a set of available settings for the selected content type.

### 5.2.1   Publication settings



| | |
|---|---|
| **Thumbnails** | Activates a slider with the thumbnails of the publication |
| **Table of contents** | Activates a view with the table of contents of the book (only available for docWorks processed content) |
| **Read out loud** | Activates Read-out-loud function of the OCR (only available with docWorks) |
| **Auto-page-turn** | Activates the automatic turning of book pages |
| **Left-to-right turn page** | Changes the orientation of the book flip, i.e. for Arabic publications |
| **Double-tap to reset** | Allows to reset zoom by double-tapping the image |
| | This is recommended if setting "Zoom beyond screen limits" is activated |
| **Zoom beyond screen** | Allows to enlarge the pages beyond screen limits |
| **Show cover overview** | Shows the cover overview even if only one publication is shown |

5.2.1.1  Edit Publication

In the edit publication dialog-box you can:

- Add/Delete publications

- Reorder publications by drag&drop using the ≡ icon.
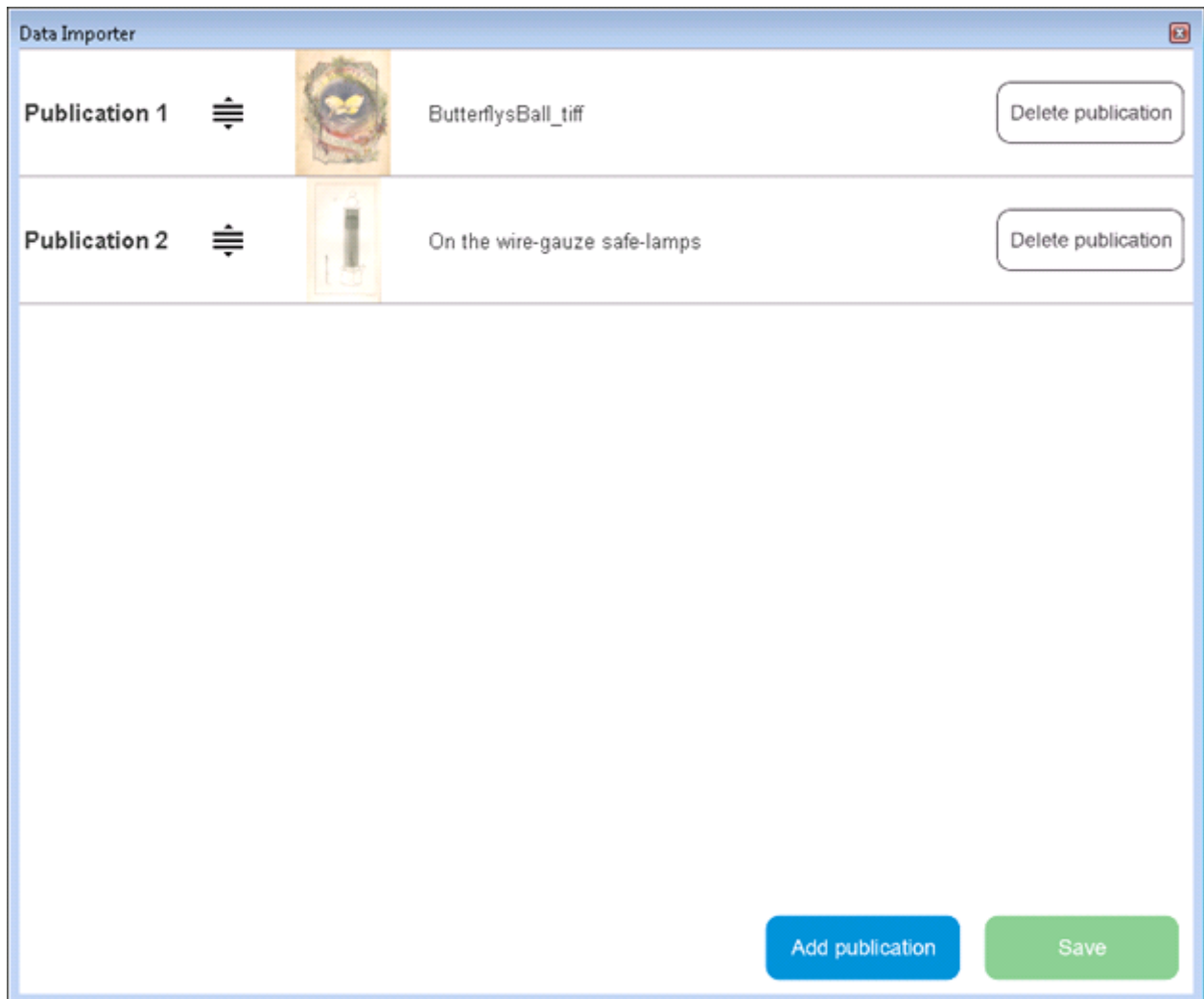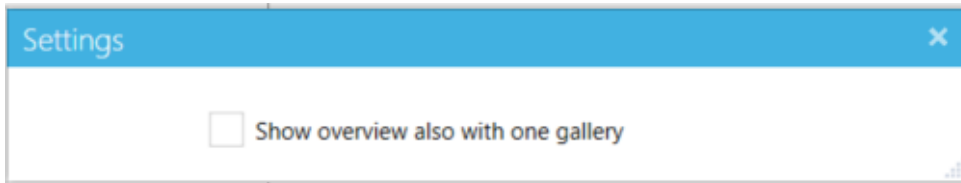


## 5.2.2  Photo / Gallery settings
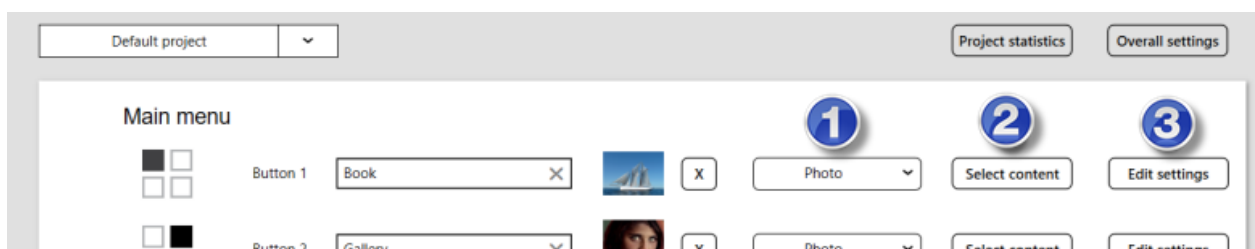


**(1)** Select **Photo** from list.

**(2) Select content.**
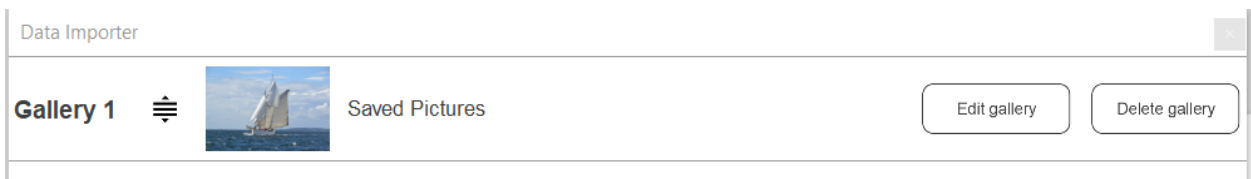
Select photo gallery or several galleries.

**(3) Edit settings.**

Shows the cover overview even if only one photo gallery is shown



PDFs (single or multiple paged) will work on the same way as the other image types (.jpg, .tiff, …). If the PDFs are multi-paged all their images will be extracted.
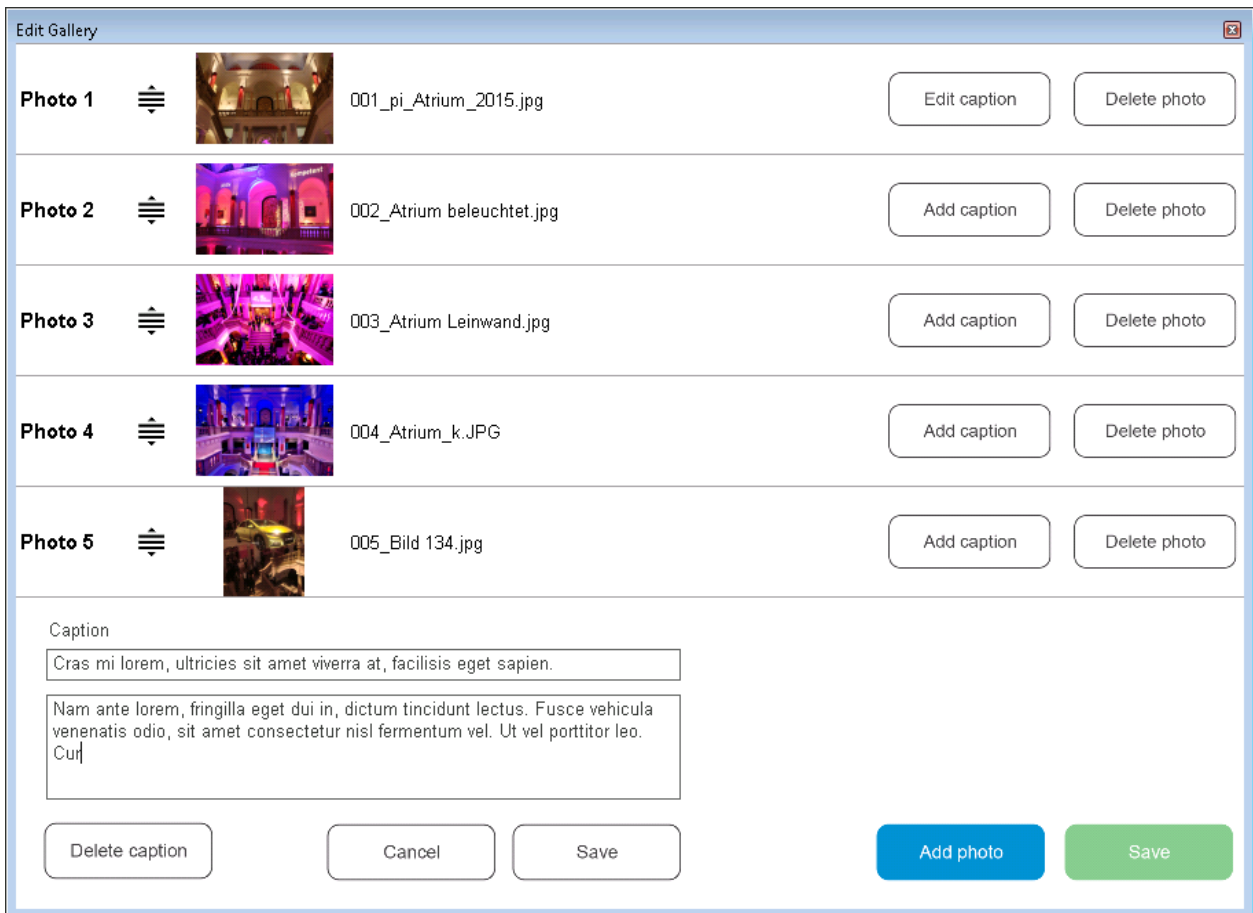
5.2.2.1    Edit Photos inside a Gallery



In the **Edit Gallery** dialog you can:

- Add/Delete photos
- Edit captions using the **Edit caption** button.
- Reorder images by drag&drop using the ☰ icon
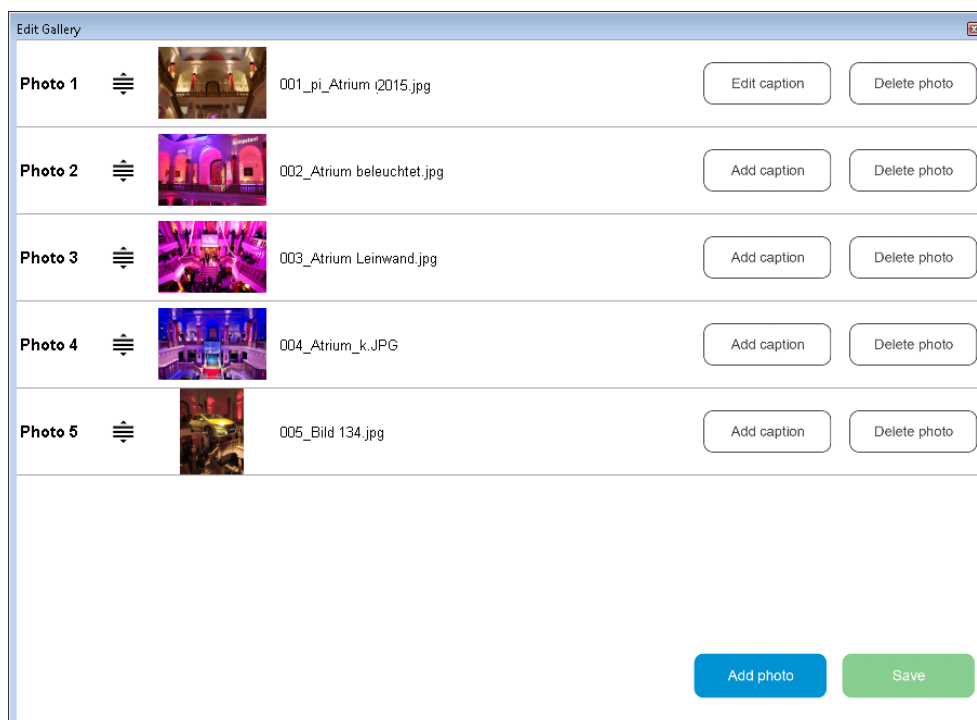
Edit text captions for images using the **Edit caption** button.



Interface displays the captions content below the image centered.

## 5.2.3 Video settings

**Use external player**    Disables the internal video player. The video will play on the system default video player

**Show cover overview**    Shows the cover overview even if only one video is shown

**Video mode**    This setting will change the mode in how the video is displayed. Values:

- Uniform: The video is resized to fit the screen while it preserves its native aspect ratio.
- Fill: The video is resized to fill the screen while it preserves its native aspect ratio. If the aspect ratio of the screen differs from the video, the video is clipped to fit the screen
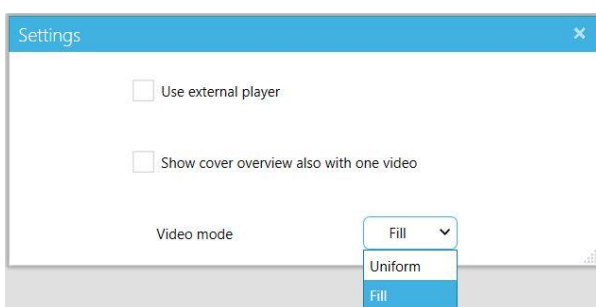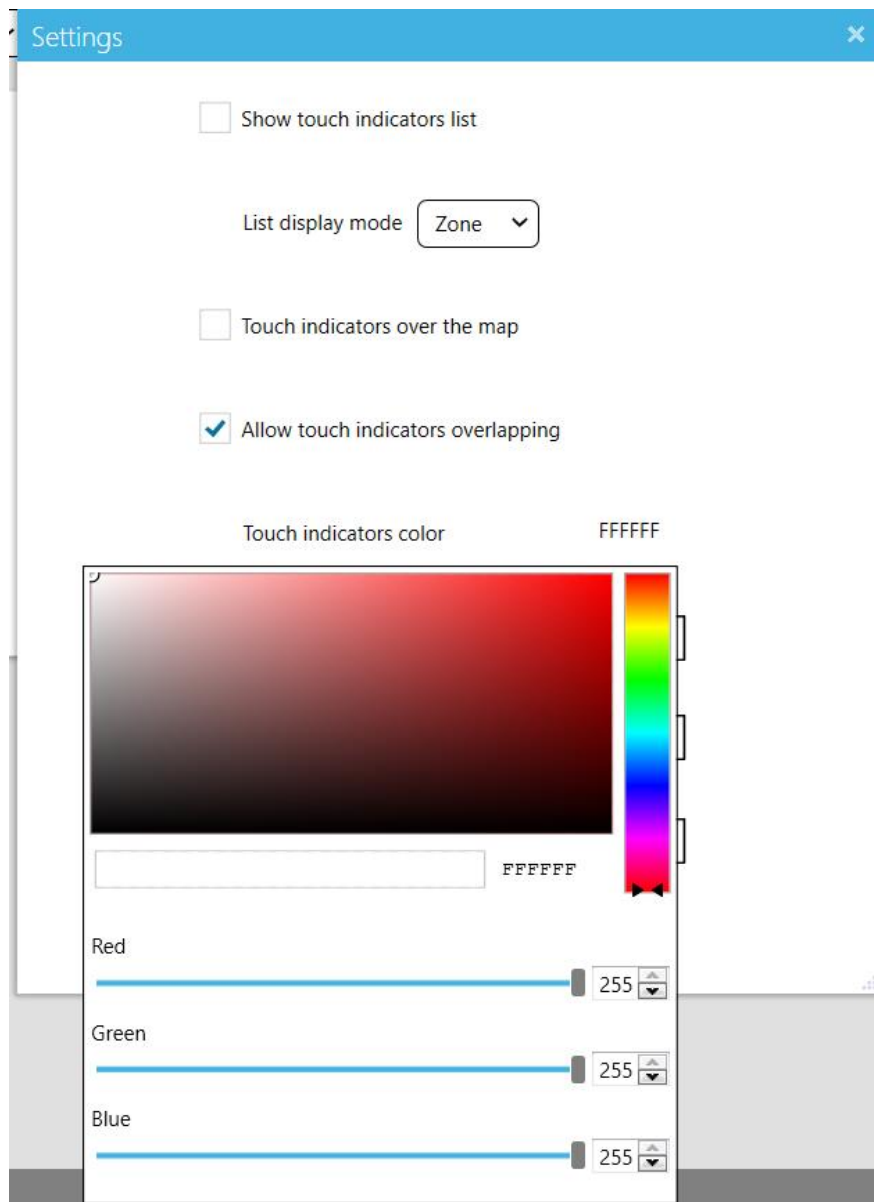
## 5.2.4 Map settings



Click on **Edit settings** button.
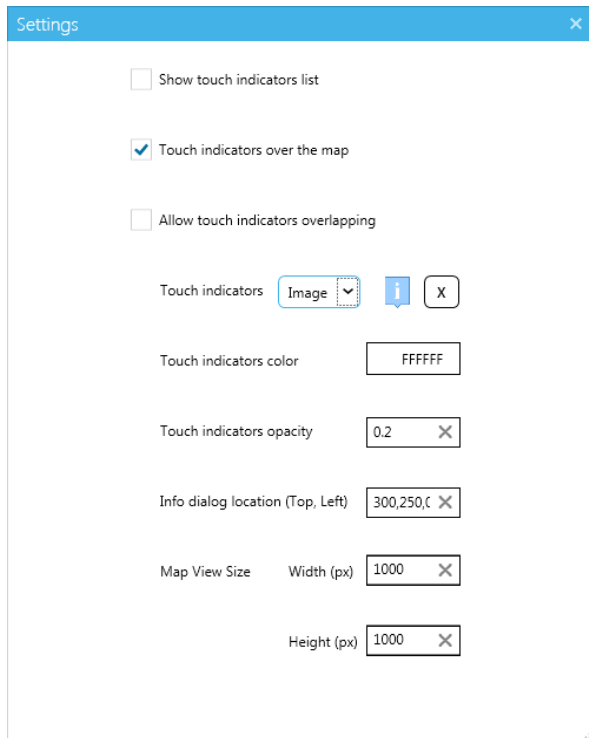


- You can activate the preferred display option or combine both of them.
- Select Touch indicators. This can be an image or a zone.

- Set touch indicators color (click into field with Hex code FFFFFF) and select a color enter a HEX or RGB code.
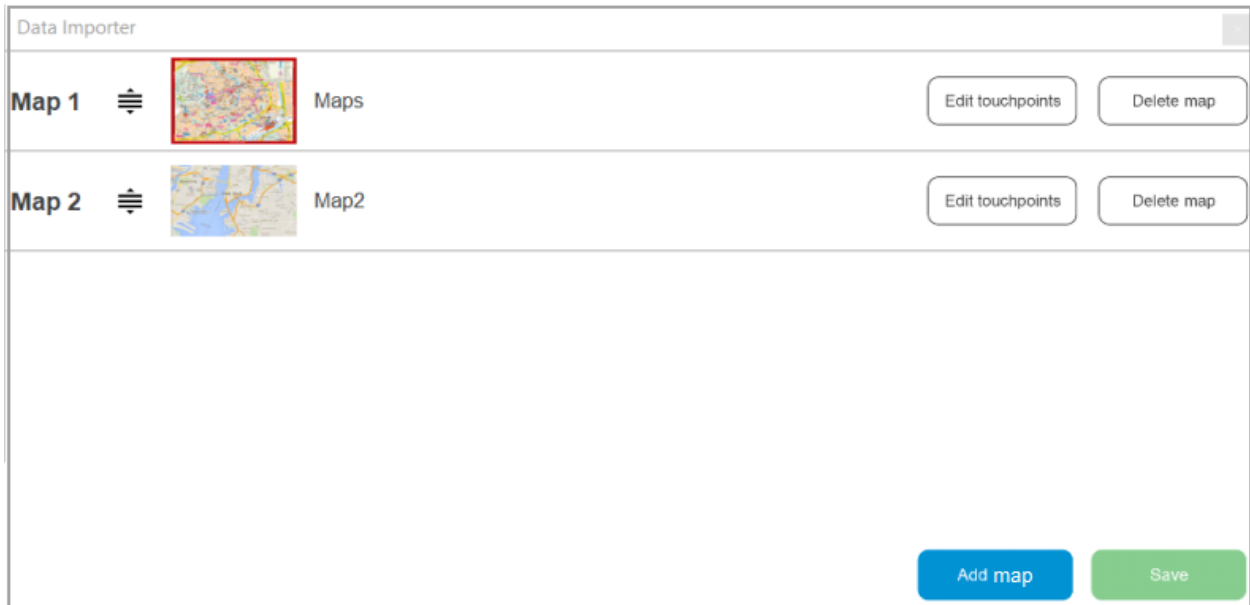


5.2.4.1   Edit Map touch points

Zonal information (touch information points) can be added to maps. An editor has been added to edit this information.

**Access the editor:**

- Click on "Select content" in a button of type "Map".

- Select the image to edit the information zones and click on "Edit touchpoints".



- The image editor will appear with the selected image loaded.



- Use drag&drop to resize the single interface parts if necessary.
- Click on the button "New".
- The information point will be created and the list of available points updated.

**Use the editor. Add a new information touch point:**

- Use your mouse to drag a rectangle over the image defining the zone which will contain the information.
- The detailed view is automatically updated with the selected zone.
- Enter the information text associated with the defined zone in the "Info text" textbox.

**Edit an existing touch information point:**

- Select a touch information point from the list.
- The interface gets updated with the highlighted zone and text related to the button.
- Edit the zone and/or the information text on the interface.
- Click on Apply.

**Use the editor. Remove an existing touch point**

- Select an information point from the list.

**Change display settings:**

Created Touch information points can be shown in two different ways:

- In a touch indicator list located on the left side of the interface
- A new button "Information" will appear on the interface.
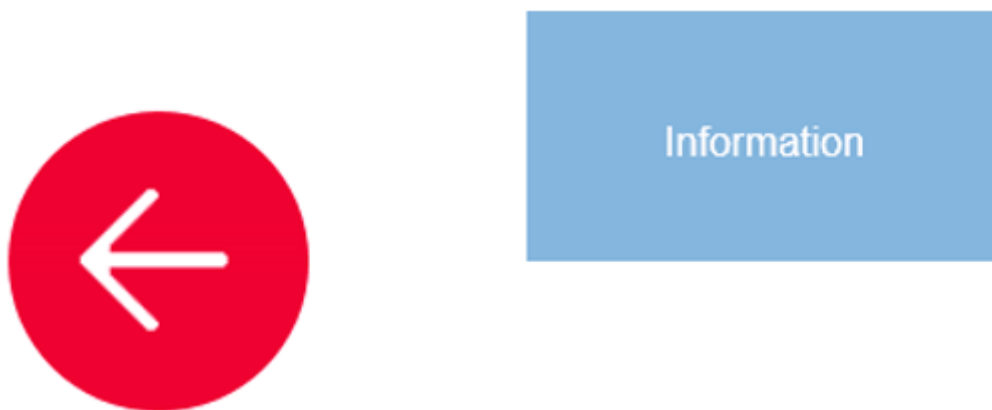


Touching it will expand a list on the left side of the interface with all the touch information points defined. Selecting one of this elements of the list will result in a  zoom and highlight of the related zone. An info dialog containing the information text will appear.
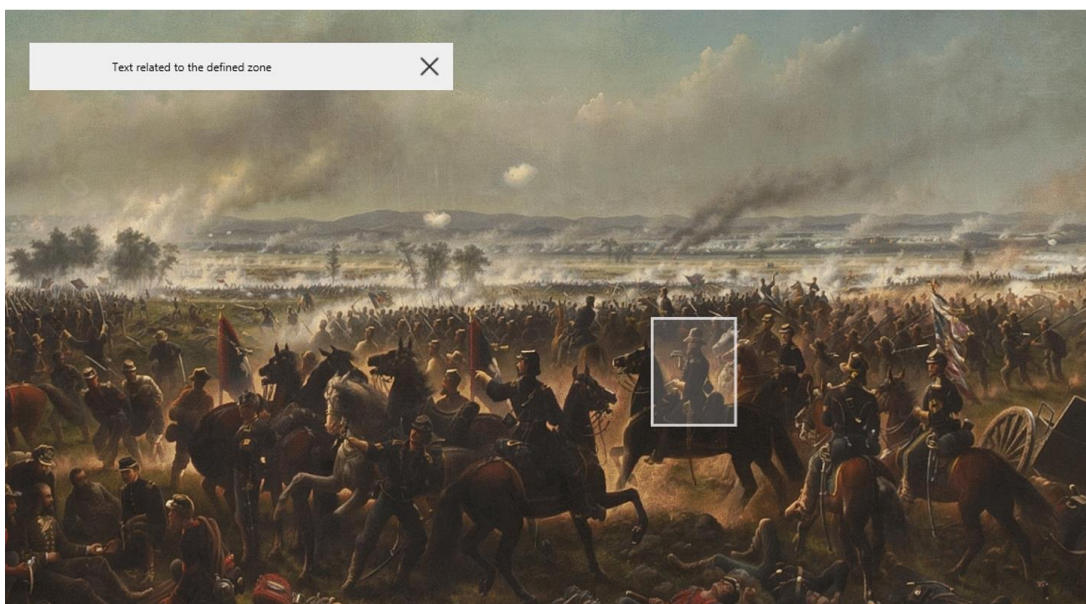
- Directly over the image
- A mark (slightly transparent) will appear over the image.



Touching this mark will highlight it and a info dialog containing the information text will appear. The position of this info dialog can be changed in the control center settings.

**Add HTML code**

Touchpoints allow HTML document display (pure text only).

Controls are available in the Touchpoints editor (word alike) to set font styling (font family, size, bold, italic, image, etc...), paragraphs, indenting (tabs) or alignment.

MapTouchPoints editor contains a title textbox field and an HTML editor to edit the content.

The title added will be used in the list-box display on the MapTouchPoints editor and also in the Touch Points list in interface.
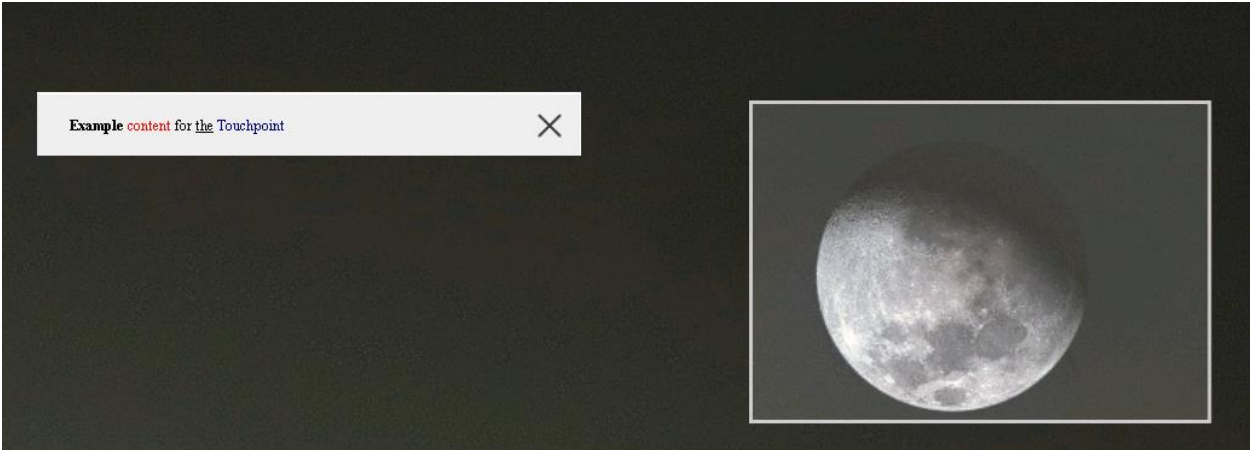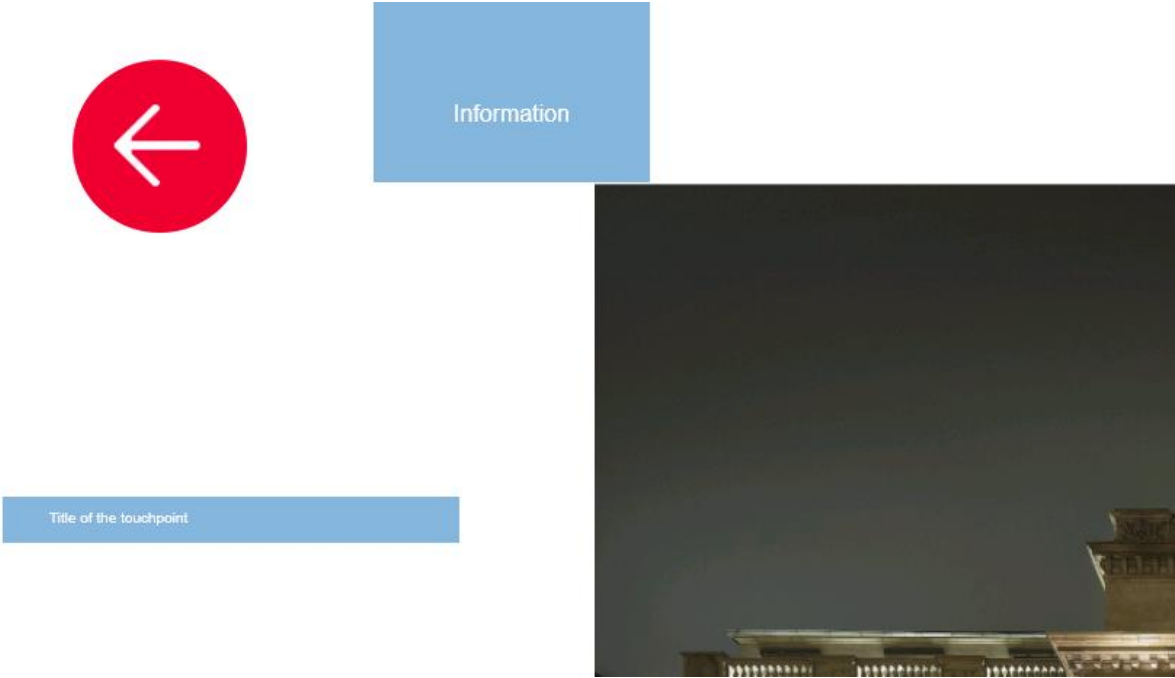
**MapTouchPoints editor:**
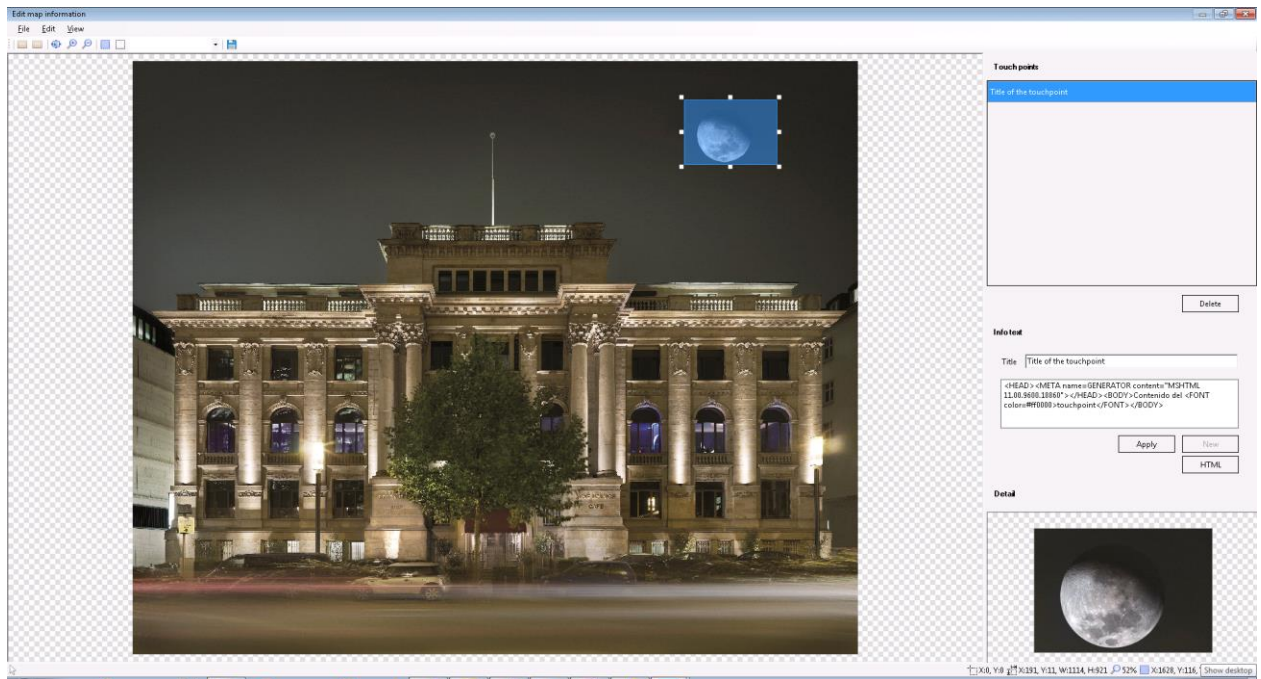


**Use the HTML editor**

Click the HTML button to open the HTML editor for the touchpoint content. Use controls to change fonts and include images:
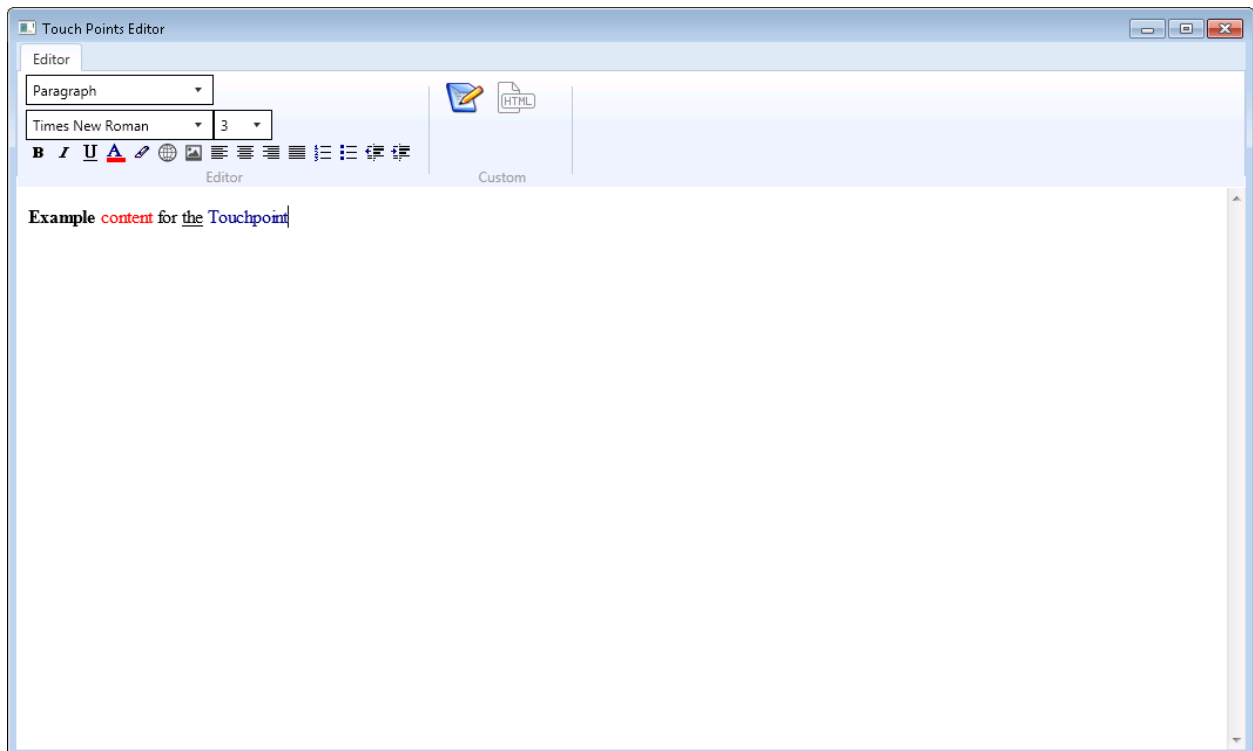
Interface display of the touchpoint (title on the left list, HTML content on the touchpoint box):



Title of the touchpoint



Example **content** for <u>the</u> Touchpoint    ✕

### 5.2.5  Command settings

Command accessing the button



Settings    ✕

Command
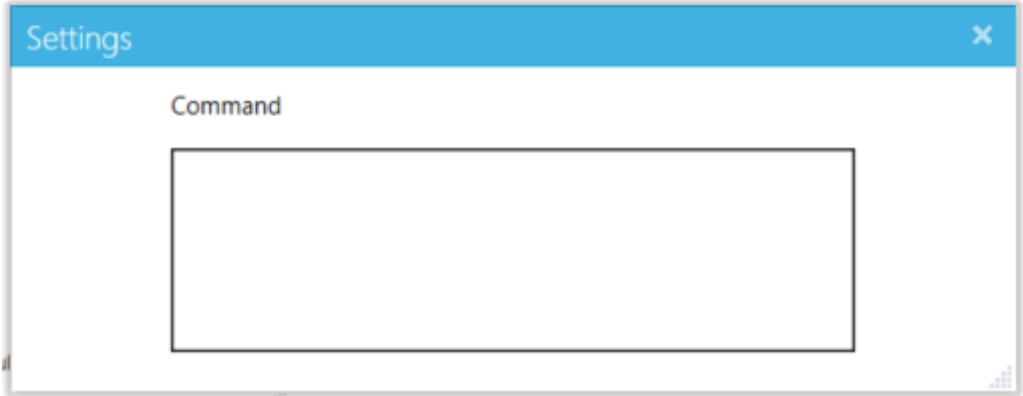
## 5.2.6  3D settings

Path to the 3D model.

The 3D viewer settings in Control Center have been expanded to control the lighting of the scene.

The values configurable for the main light of the scene are:

- Azimuth (Angle): Angle of the light source.
- Altitude: Altitude of the light source.
- Brightness: Intensity of the light source-
- Ambient: The general ambient lighting intensity of the scene:
- Head lightning: On/Off value. Light which incides directly to the front of the model. (Will have the effect of reflections when moving the object)

As they are ranged values, sliders have been integrated.

## 5.2.7  docWorks settings
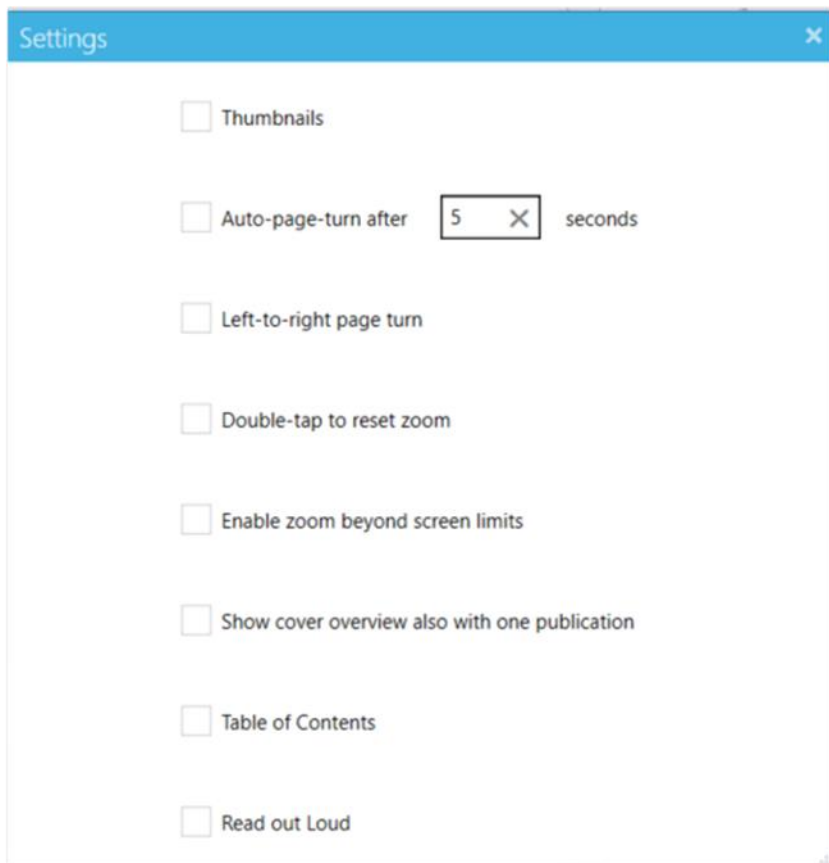


In "docWorks" you load all publications that have been converted using docWorks, thus include METS/ALTO information. It basically works like the "Publications" section, but publications in "docWorks" will automatically be displayed with the title from the information in the XML file. With docWorks processed publications it is also possible to show a "Table fo content" and "Read-out-loud" function (you can active these features in the settings). Make sure to process and import all docWorks publications.

## 5.2.8  Browser settings

Network connection is not supported by CCS on MagicBoxes. For other touch devices or showing offline HTML content a browser has been integrated on the interface.

**Configure a web browser on the interface:**

- Using the control center; set the type of the desired button to "Browser".

- Click on "Edit settings". A new settings popup will appear:



- Enter the desired URL to be displayed.
- Select the browser engine:

  - Default: Default browser based on Internet Explorer;

  - Chromium: Chrome based engine;
    Recommended for displaying modern content (webgl, html5, …).
- "Lock browser to URL (Disable links)" available for Chromium: Activating this option will block any link navigation on the defined browser URL.

### 5.2.9  IIIF settings
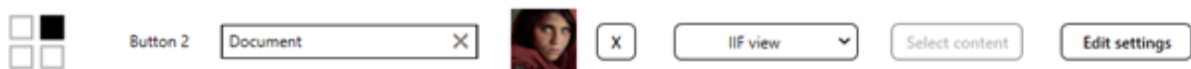


Click on **Edit settings** button.



You can enter the desired manifest URL that is going to be displayed in the viewer. The viewer will display the resources conformed in the Manifest, it is important to note that the computer should have network access available in order to be able to access the URL and display the content.

Viewer technology used is UniversalViewer, which is also compatible with 3d and audio/video content, manifests containing these types of media can be set as display source too. You can find more information about the project in https://universalviewer.io.
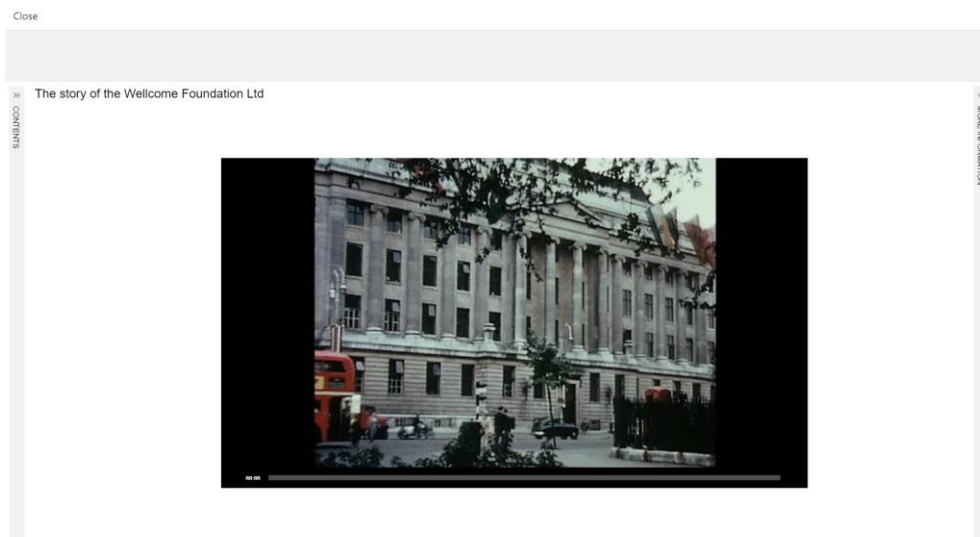
- Manifest with book example:



- Manifest with 3D model example:
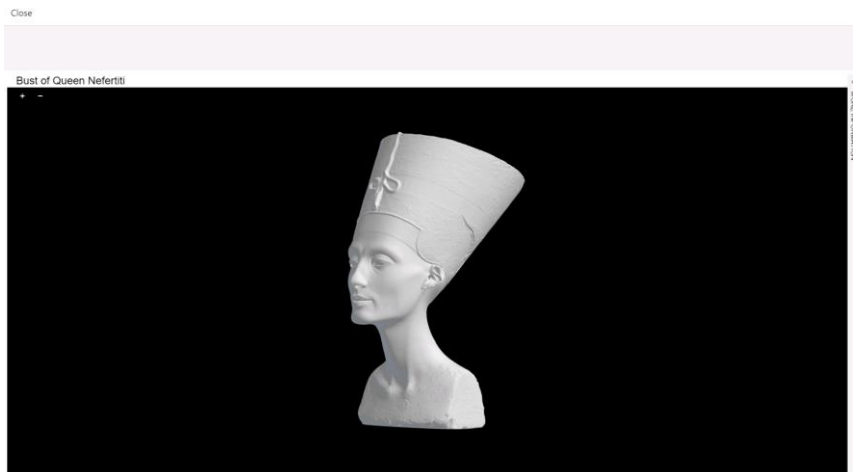


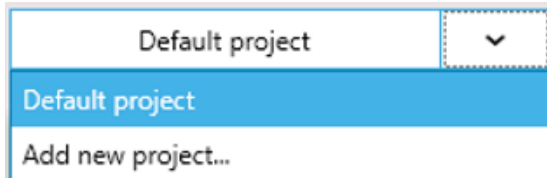- Manifest with audio/video example:

## 5.3  Statistics – Details

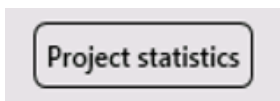MagicTouch registers and display user activity statistics.

Statistics view is accessible via Control Center. Views per each button, type and visitors (one-minute inactivity will register a new visitor on new Interactions) on the day/month/year/total)
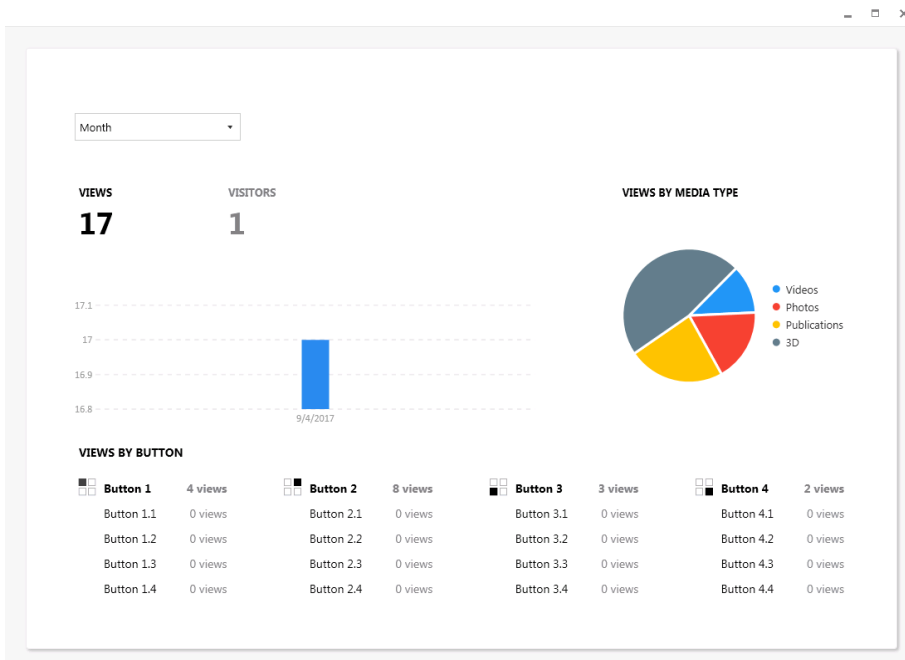
**View project statistics:**

- Select the project.



- Click on Project Statistics.



- A new window with the statistics will appear.
- Select in the dropdown: Today/Month/Year/Total and the interface will be updated accordingly.



**Statistics displayed are:**

- Number of views
- Number of visitors. A visitor is registered when interacting with the interface after an inactivity time of 60 seconds. (Video playing time does not count as inactivity time)
- Number of views per day in a column diagram.
- Views per content type in a pie char.
- Number of clicks per each button

## 5.4 Overall settings - Details

On top of the "Main menu" card you will find the "Overall settings" button. These settings are not attributed to a specific content type, but to the general presentation of MagicTouch.

**Settings**                                                    ✕

| | | |
|---|---|---|
| ☐ Password on close | Password (only digits) | •••• |
| ✔ Gesture icons | Interval (sec.) | 60 ✕ |
| ☐ Idle event after 600 ✕ | seconds | Video ⌄   Select |
| ☐ Display hide UI button | | Select |
| ✔ Group menu tiles in the center of the screen | | |
| ☐ Place navigation controls on the bottom | | |
| ☐ Autocrop dialog for double page publications | | |

| | | |
|---|---|---|
| Menu background | image ⌄ | Select |
| Content background | white ⌄ | |
| Animated Icons Background | ▇ 0090CE | |
| Return Button Background | ▇ EE0033 | |
| Tiles Default Background | ▇ EE0033 | |
| Gallery image size | Height (px) 700 ✕   Width (px) 700 ✕ | |
| Display Ratio | 0.65 ✕ | |

| | |
|---|---|
| **Password on close** | Password will be asked when trying to close down the application |
| **Gesture icons** | After a specified interval of inactivity, animated call-to-action gesture icons appear on the screen |
| **Idle event** | After a specified interval of inactivity, an idle event will be started. Idle event choices are "Play a video" or "Go to main menu". The idle event "Video + Menu" is the combination of both actions. It plays a video, when it ends the interface is no more directly on the document, will be on the menu. |
| **Display HideUI button** | Display on the bottom left side of the application a button to hide the interface. (Useful for transparent screens). |
| **Group menu tiles** | Deactivating this setting will move the menu tiles to the edge of the screen |
| **Place navigation buttons on the bottom** | Control buttons (back arrow, thumbnails, table of contents, ...) can be placed to the bottom of the screen. |
| **Autocrop dialog for double page publications** | Allow automatically splitting images (50% horizontal split, generating a left and a right image for each source image) when importing them into the application. See details below. |
| **Menu background** | Select white, black or an image |
| **Content background** | Select white, black or an image |
| **Screen background** | Select white, black or an image |
| **Animated icons background (HEX)** | Animated icons background color. This setting will change the background color of the animated icons. Color can be defined via HEX code, RGB values or selecting the color using the color picker. |
| **Return button background (HEX)** | This setting will change the background color of the return arrow. Color can be defined via HEX code or using the color picker. |
| **Tiles default background** | Define the default background for menu buttons without image. |
| **Gallery image size (px)** | Define the size of the image galleries (for smaller screens). |
| **Display ratio** | Some wide publications can be cropped out when being displayed on small screens. This setting defines the content box display ratio and can be changed to a lower value to correct this issue (default 0.65). |

**Activate the Autocrop dialog for double page publications feature:**
- Activate the setting "Autocrop dialog for double page publications".
- Click on "Select Content" on a button of type "Publications". The import dialog will appear.
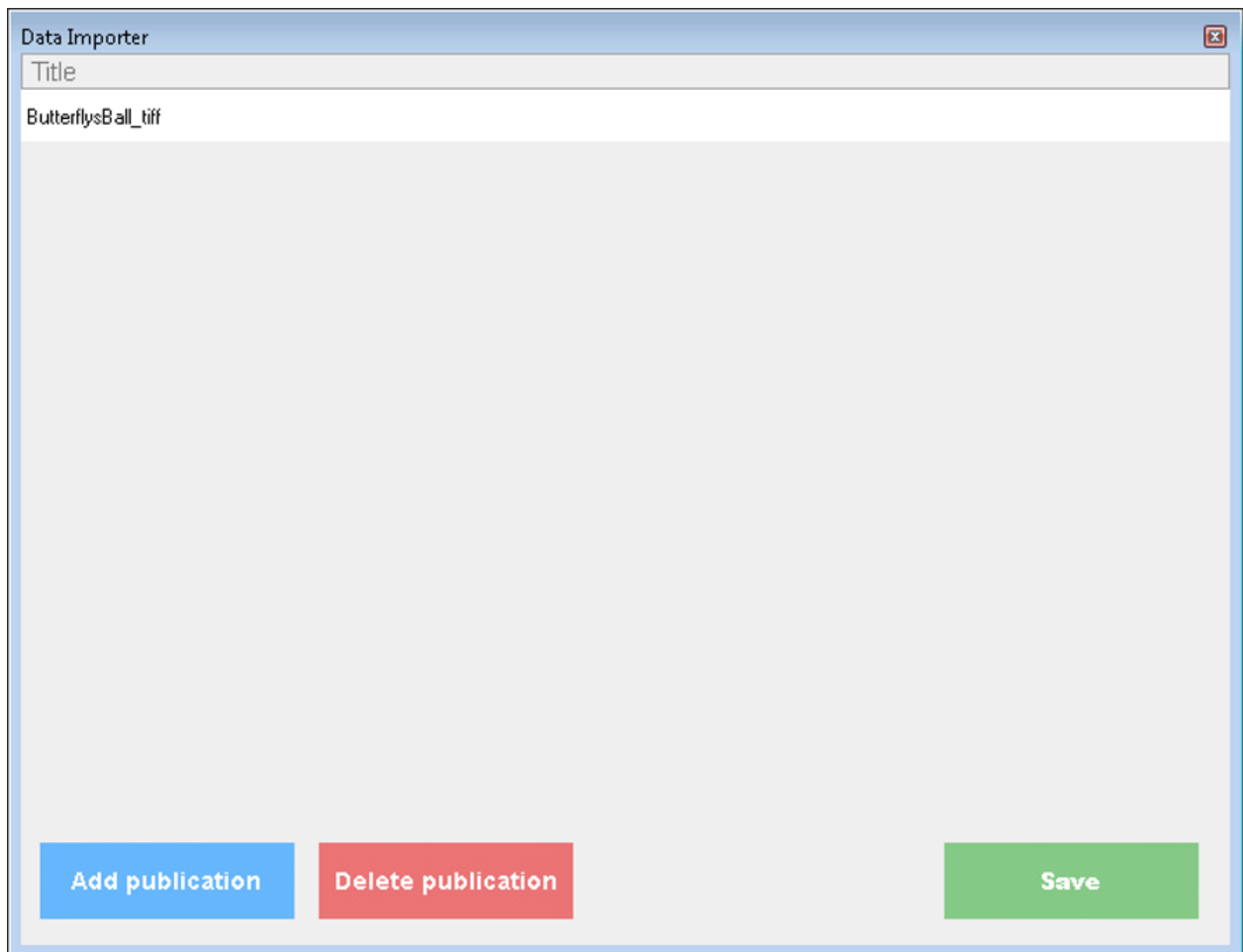
- Click on "Add publication", select the folder containing the publication to be imported and click on OK.
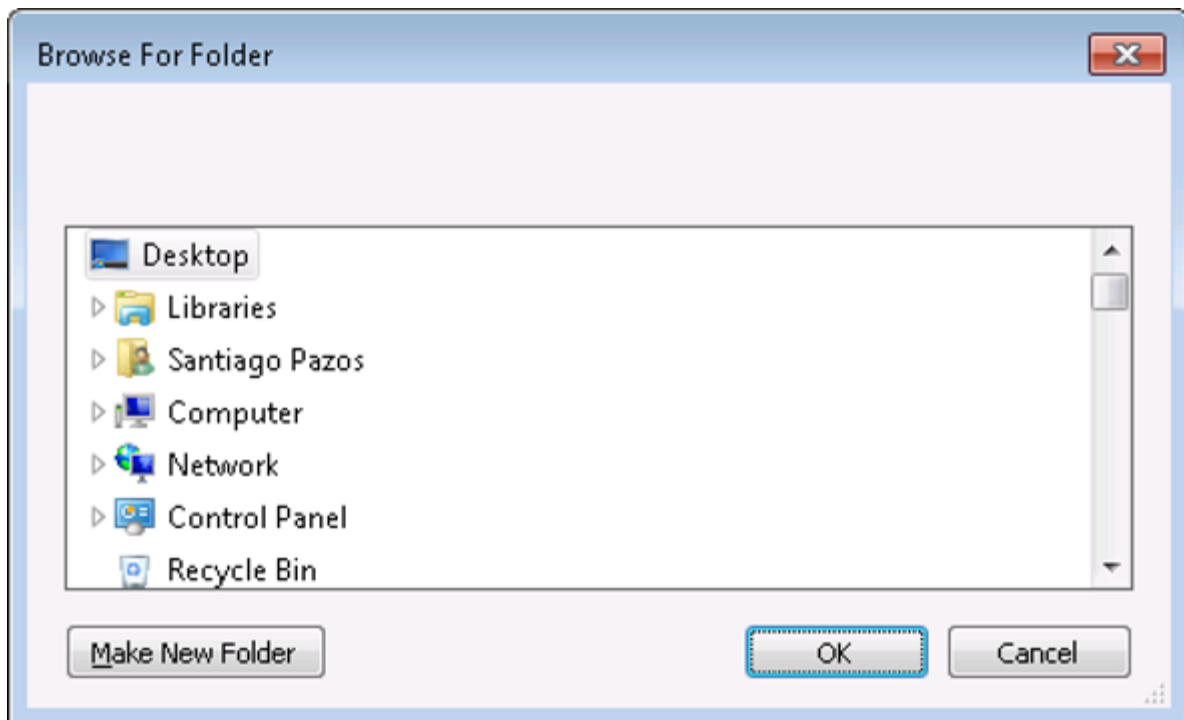
- A new dialog will appear. Here you can indicate if the page splitting should be applied for this publication and indicate some extra settings.
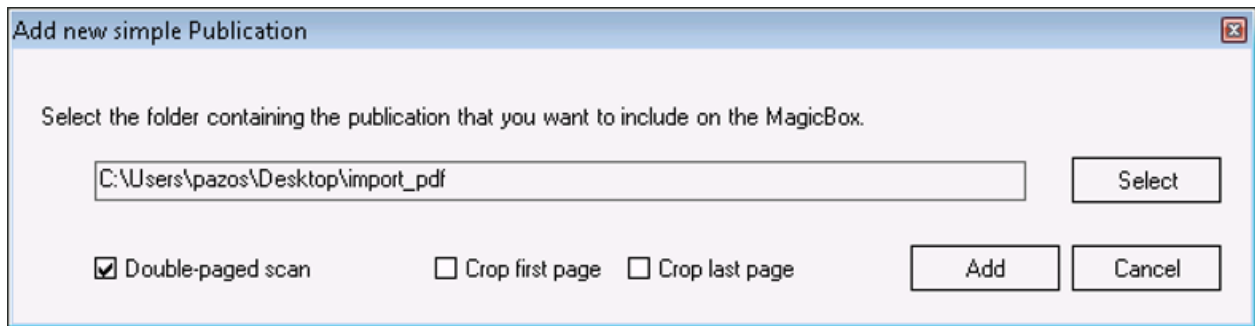


- Double-paged scan checkbox will activate the 50% split.
- Crop first page/last page will execute the 50% split also for the first/last image. These values are configurable because in some cases of double-paged scans the first/last image is a single page.

## 5.5   Multiple projects

Control center now has a dropdown to add and select different projects. Projects can be created (at least one project definition is required. The selected project in the dropdown will be the active project to display when accessing the interface).
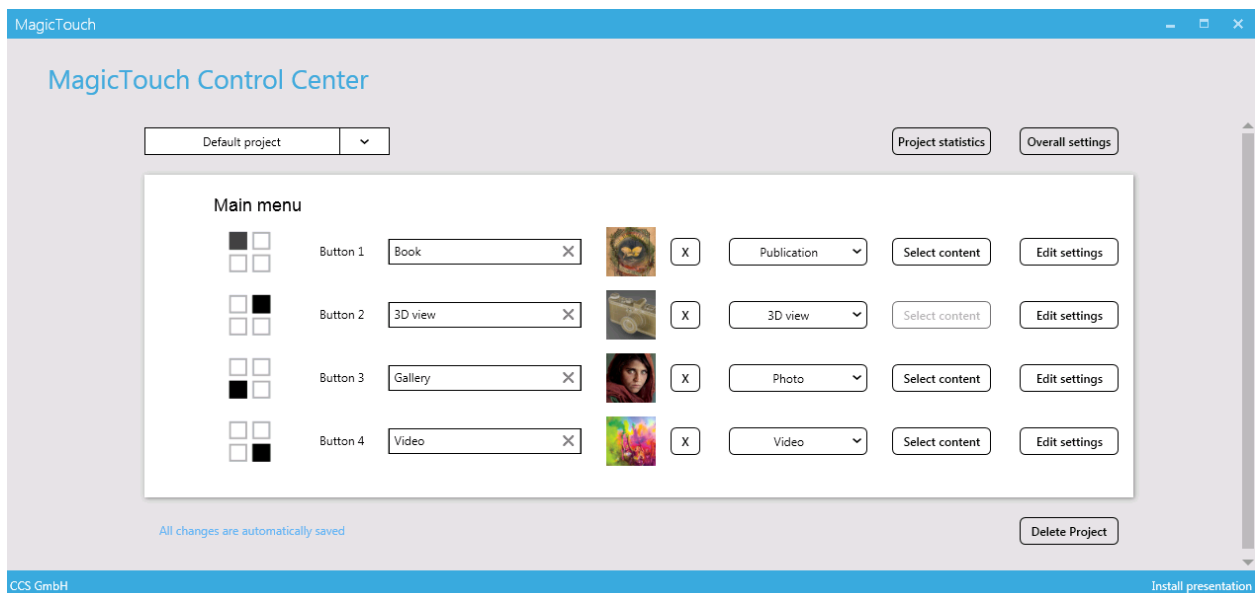


**Create a project:**

- Expand the dropdown and select "Add new project…".
- Enter the project name.
- Click on create project.

**Rename a project:**

- Select the project to be renamed in the dropdown.
- Click on the project name.
- Enter the new project name.
- Click on rename project.

**Delete a project:**

- Select the project to be deleted.
- Click the button delete project and accept.
- NOTE: This will also delete the project data (images, backgrounds, menu button images,…).

## 5.6   Import and install a single project from USB stick

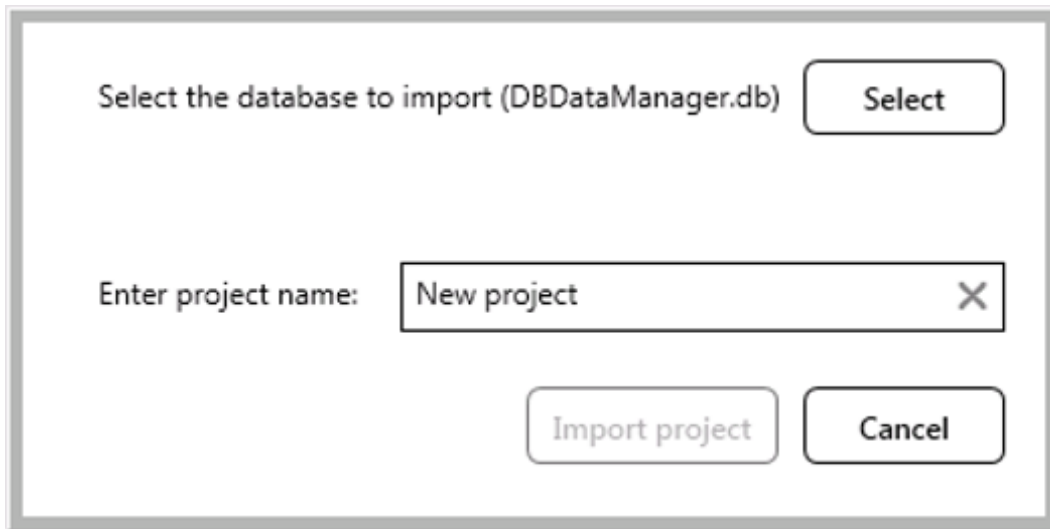**Follow these steps to import a single prepared project from USB stick**

**Import a project from the USB to your MagicBox**

Steps required for importing a prepared project (maintaining all your previous prepared projects)

1. Open the Control Center installed on the MagicBox.

2. Click on "Import Project" button.
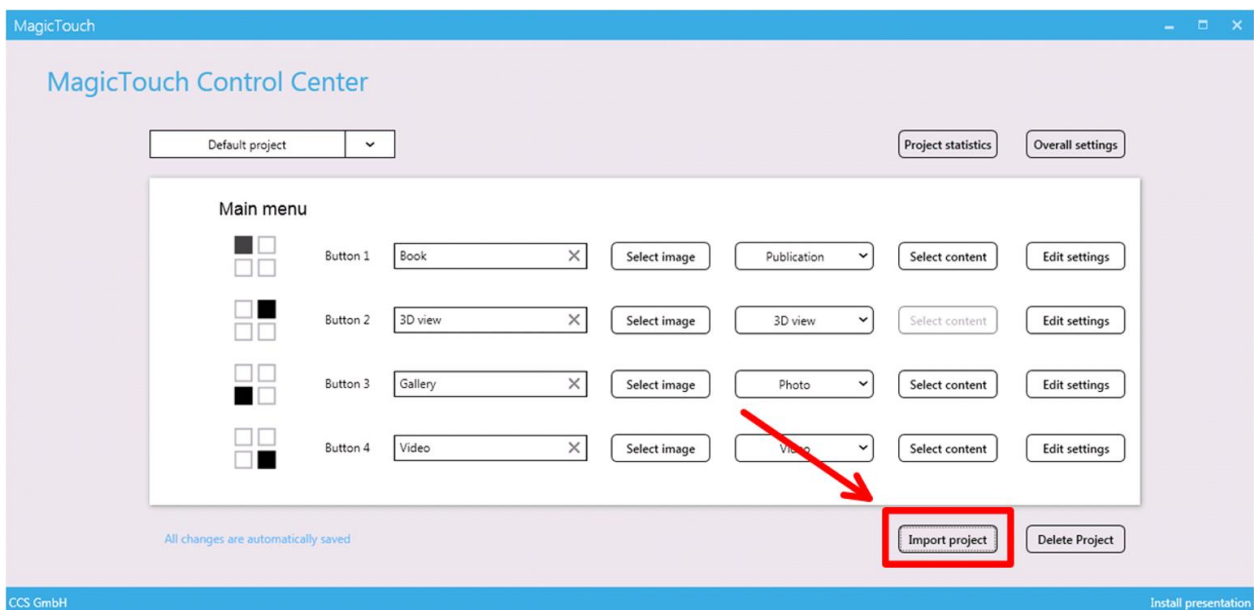
3. A window will appear:



You need to enter following details:



- Database location:

Click on select to open a window which will let you select a database file. Select the database on the USB located in app/Resources/Custom

- Select the project:



After selecting the database, you will be able to select which of the prepared projects you want to import.

- Give the imported project a name:



Enter a name for the project. Can be the same as the original or a different one.

4. After all the information has been filled click on Import. A "wait dialog" will appear during the process. When the dialog disappears the import process will be fully done.

## 5.7   Install all the projects from the USB

Steps required for installing all the prepared projects (will replace all the projects in case the install destination contains previous presentations).

1. Open the Control Center located in the USB stick.

2. Click on "Install presentation". You'll find the button on the bottom right side of the "Control Center".



3. Select the destination and click on "Install".
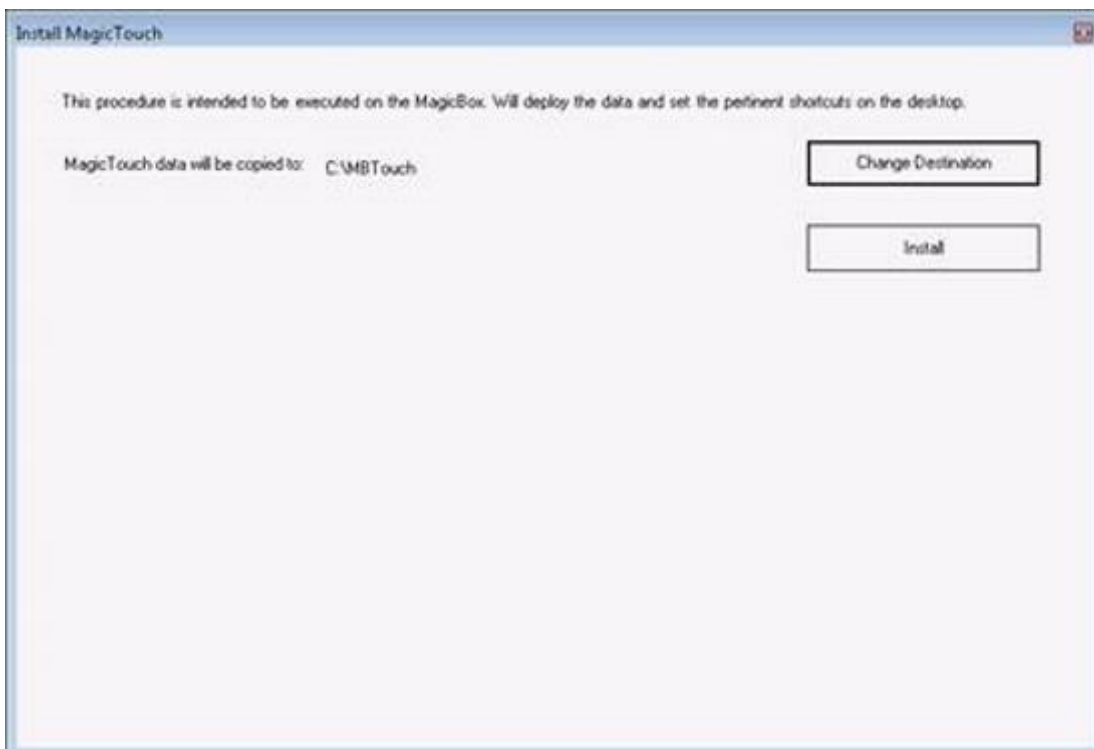
# 6  Automatic start/stop

Following description of automatic start or stop is using the example of a MagicBox with MagicTouch software.

## 6.1  Auto start of the MagicBox

To set the auto start, you need a keyboard. For the setting any USB keyboard can be used.

- After switching the MagicBox PC on click F2 key on the keyboard. This leads to the BIOS menu;
- Navigate to the settings for "Power Management" using the arrow keys;
- Then find the option "Auto on Time";
- In the following window you select days of the week and what time the PC will switch on automatically;
- Arrow keys or the tab key can be used to navigate;
- Close menu;
- When all is set, use click "Save" button and close the BIOS menu.

## 6.2  Automatic switch-off

- Open Start menu on the desktop (using the Windows key bottom left);
- In the search window, type the term "Task Scheduler" and then double-click to open. With this application you can create automatic tasks or Windows;
- Click "Create Basic Task..." to create a new task;
- Enter a name for the automatic task (E.g. automatic shutdown) in the next window;
- Click on Next and select how often the task should be enabled, daily or weekly should be used in case of daily use;
- In the next window can be selected then the time at which the task starts automatically;
- The next step "start a program" can be selected and click on Next;
- In the following window, in the line below program/script, simply type "Shutdown" and right next to "Add arguments (optional)", type: '-s f'. This will ensure that the PC turns off in any case, even if more programs are active;
- The last window shows an overview of all selected options;
- Finally, click "Finish".

# 7 Close MagicTouch

Click the hidden button on top right to close MagicTouch:



X
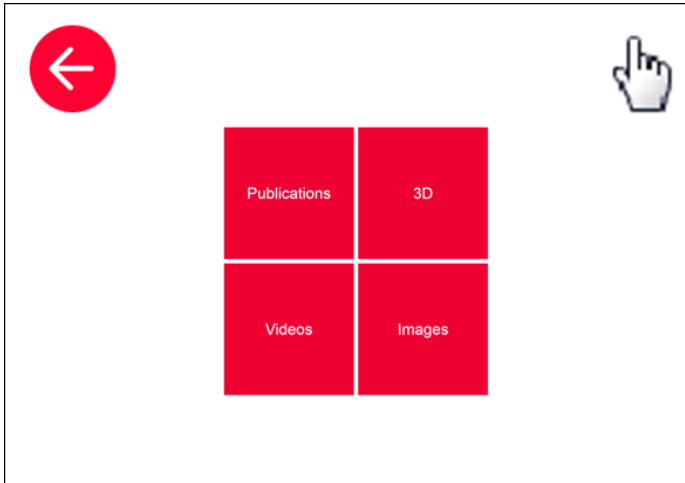


If configured in ControlCenter, you have to enter a key and press Ok.







**Shutdown** - Shutdown the PC where MagicTouch is installed;

**Desktop** - Close MagicTouch and show your desktop;

**Cancel** - go back to MagicTouch.

 Last updated: 03/10/2020

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