



CarryMap Builder

Extension to ArcGIS Pro

Version: 8.0

(c) 2024 Data East, LLC

About CarryMap Builder

CarryMap Builder is an extension to ArcGIS Pro for creating compact interactive maps in CMF2 format for further use on Android/iOS smartphones and tablets and Windows Desktop devices. Note that to use mobile maps created with CarryMap Builder, you will need to install free CarryMap app depending on your device OS:

- for [Android](#)
- for [iOS](#)
- for [Windows](#)

System requirements to install CarryMap Builder:

Operating system: Microsoft Windows 8/10/11


Requisite software: ArcGIS Pro 3.2

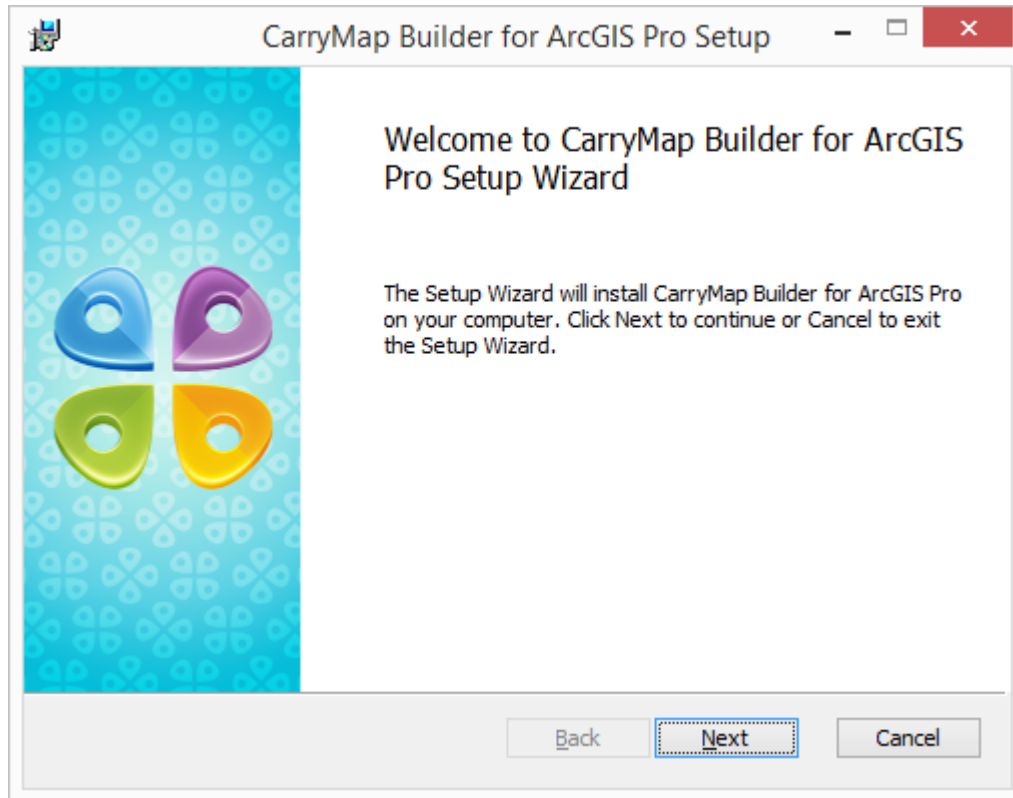
Microsoft .NET Desktop Runtime 6.0.5

Note for CarryMap 3.x users:

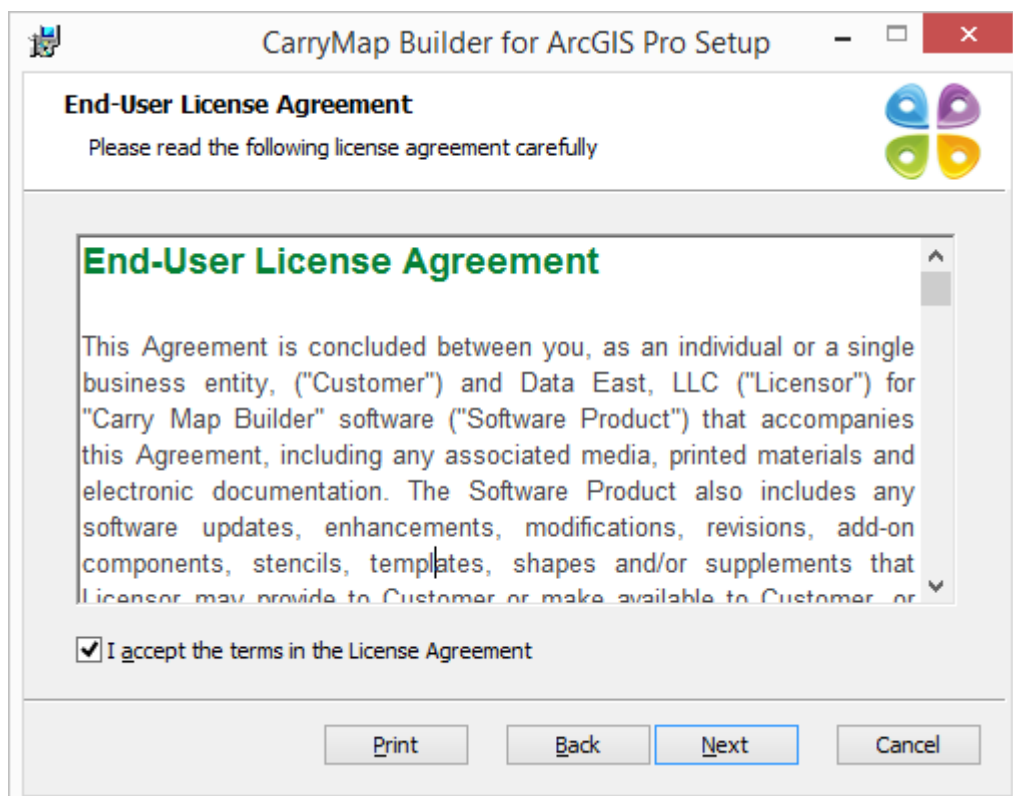
Dear users! CarryMap 3.x is the previous generation of ArcGIS Desktop extension that has been replaced by CarryMap Builder, a new product with enhanced functionality. Please note, that we no longer develop new versions of CarryMap 3.x extension as well as mobile application CarryMap Observer that was used to view CMF mobile maps. However, if you own a CarryMap 3.x license, you can continue using it as long as you need. Read [this article](#) to view detailed comparison of CarryMap 3.x and CarryMap Builder functionality. Contact sales@dataeast.com for details.

Installing CarryMap Builder

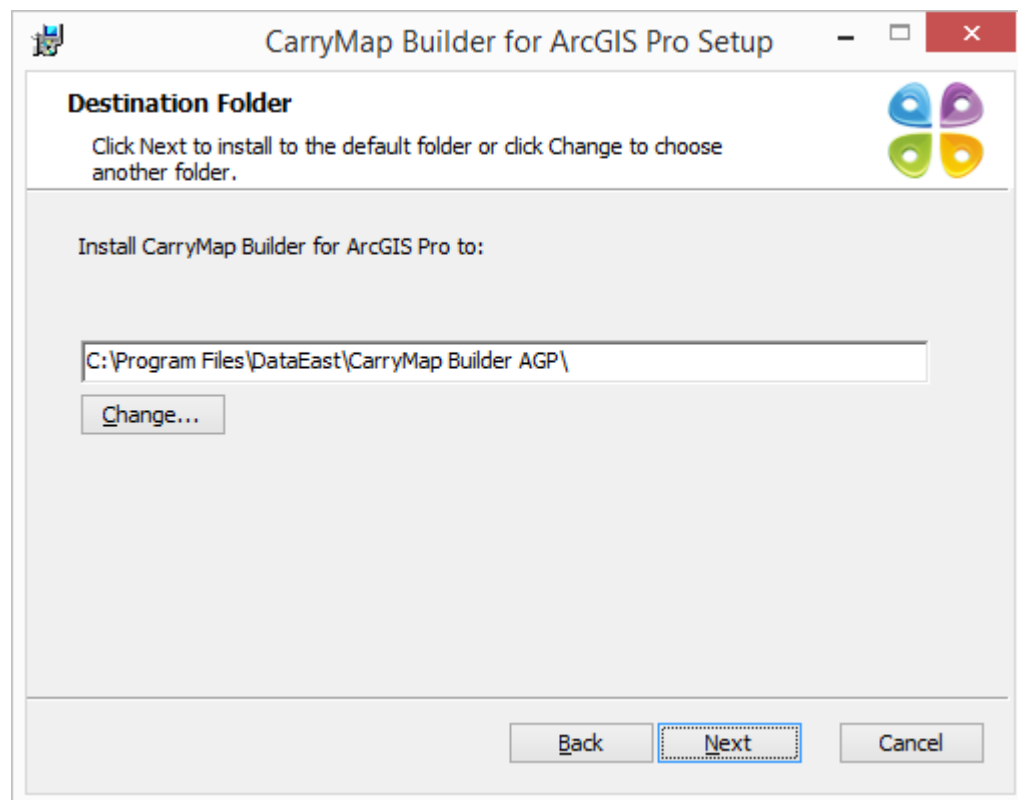
To install CarryMap Builder, go to [CarryMap Builder](#) and press Download button. Run the  CarryMapBuilderAGP setup file. Press **Next** in the appeared window.



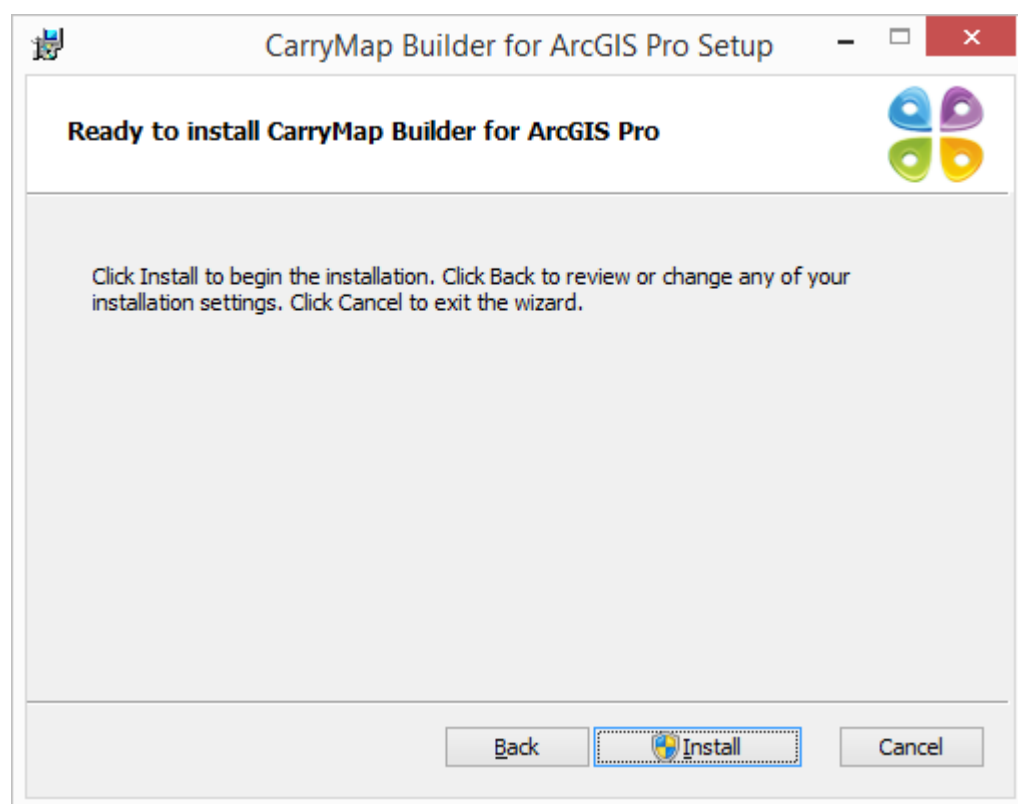
Read the End-user license agreement and check the box accepting its terms, press **Next**.



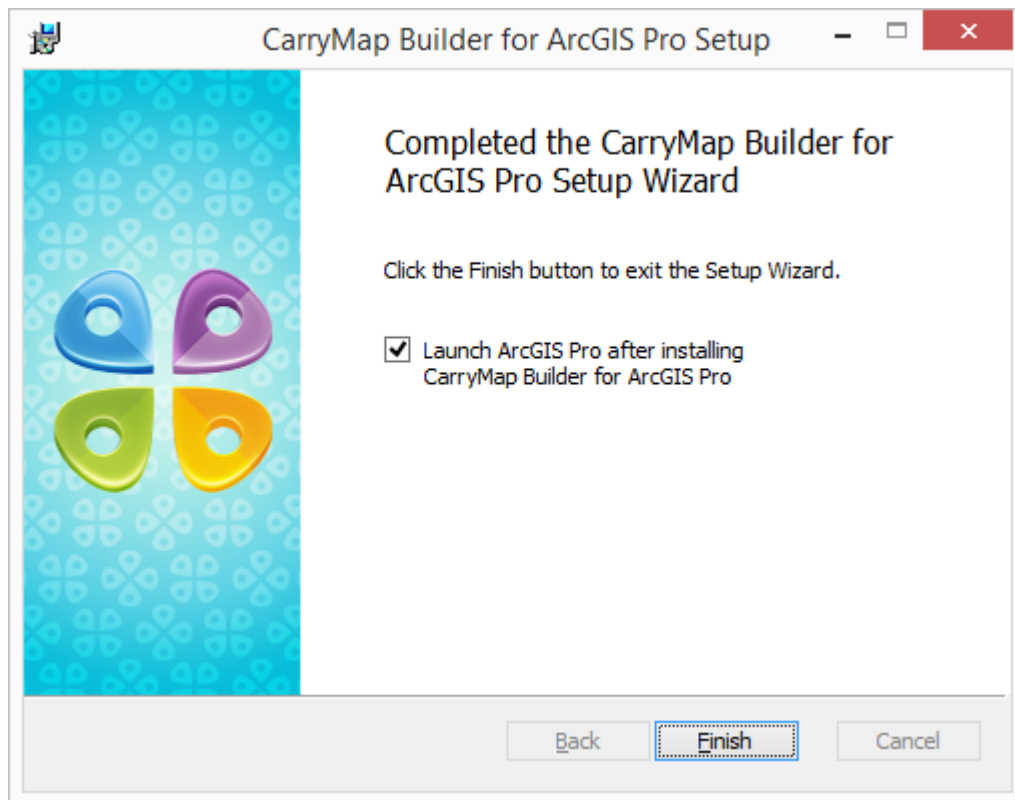
Specify the path to the CarryMap Builder installation file and press **Next**.



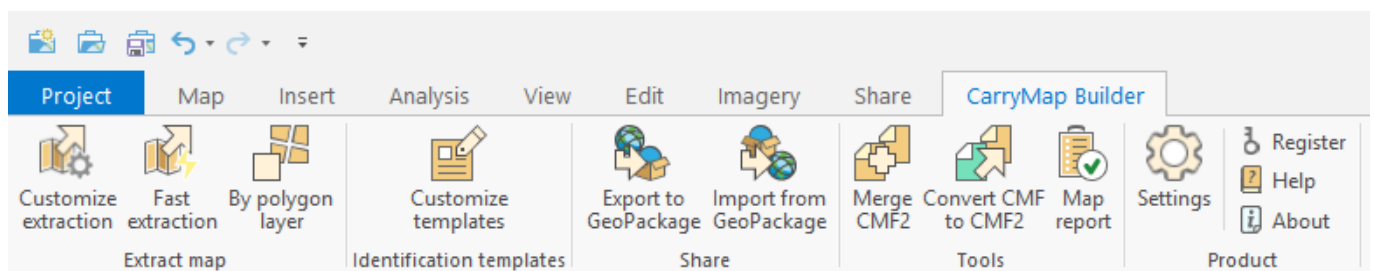
In the appeared window press **Install**.



Upon installation completion, the window with appropriate message appears. In this window check the box to launch ArcGIS Pro after installing CarryMap Builder and press **Finish**.



The CarryMap Builder tab will automatically appear on the ArcGIS Pro ribbon.



Licensing

To be able to use CarryMap Builder extension, you need to have the appropriate license key. You can purchase CarryMap Builder on the [product's website](#) or send your request to our sales department at sales@dataeast.com.

CarryMap Builder for ArcGIS Pro is a part of CarryMap Builder product and is available with CarryMap Builder Single, Corporate, Academic or Global licenses.

The available types of CarryMap Builder licenses and their characteristics are shown in the table below.

License type	Trial ¹	Subscription	Single	Academic ²	Corporate	Global
Period of use	14 days	1 year	Termless	Termless	Termless	Termless
Access to new versions and updates	-	+	During active technical support ³	+	During active technical support ³	During active technical support ³
Number of users	1	1*	1*	1*	25*	Unlimited

1. The Trial license is valid for 14 days starting from the trial license key activation date. In order to continue using CarryMap Builder after completion of the trial period, you will need to purchase the license.

2. The Academic license is provided for use by educational institutions for educational purposes only.

3. Purchasing new license includes annual maintenance. Purchased maintenance and staying current on maintenance is the only way to have access to all newer CarryMap Builder versions, no matter major or minor.

* If you need to transfer your activated CarryMap Builder license to another computer, contact our support team at support@dataeast.com.

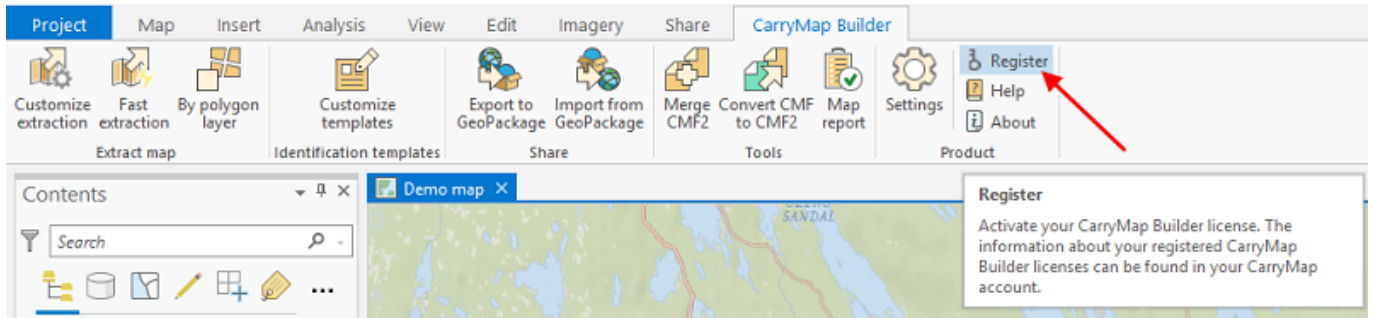
Dear CarryMap Builder users, please note that using more than one Trial license on one and the same computer is not allowed!

Registering CarryMap Builder license

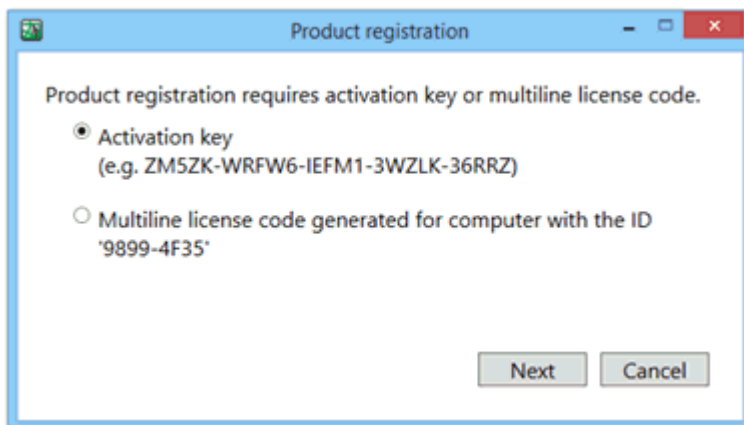
Note that to use CarryMap Builder you will need a license. Go to site [CarryMap Builder](#) to learn about provided licensing types and to buy CarryMap Builder. Contact sales@dataeast.com for details.

After getting CarryMap Builder license, you need to register it:

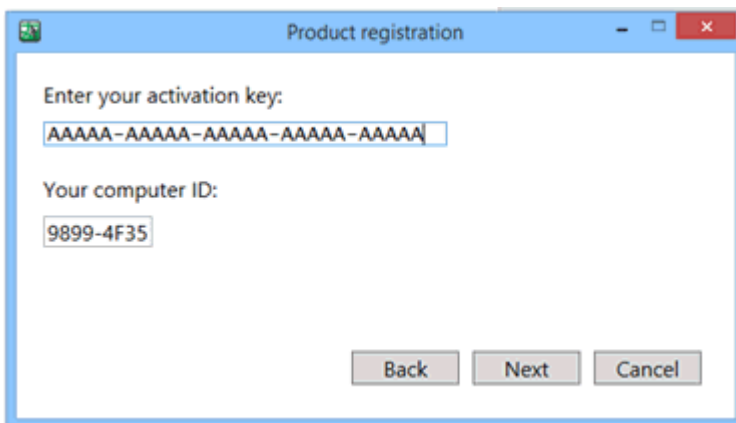
Press **Register** button on the **CarryMap Builder** tab.



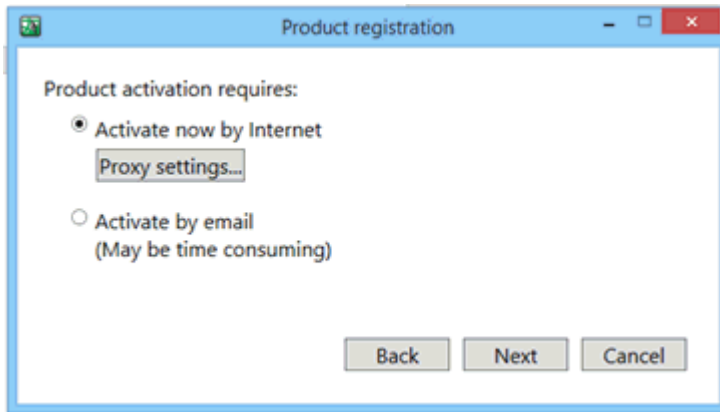
Select the appropriate variant and press **Next**.



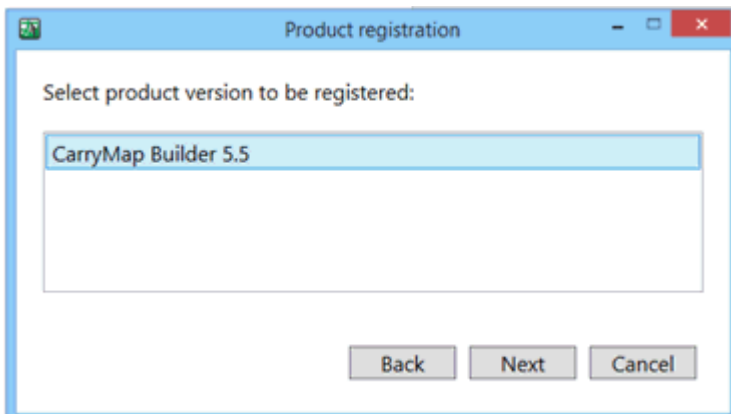
Enter the activation key in the appeared window and press **Next**.



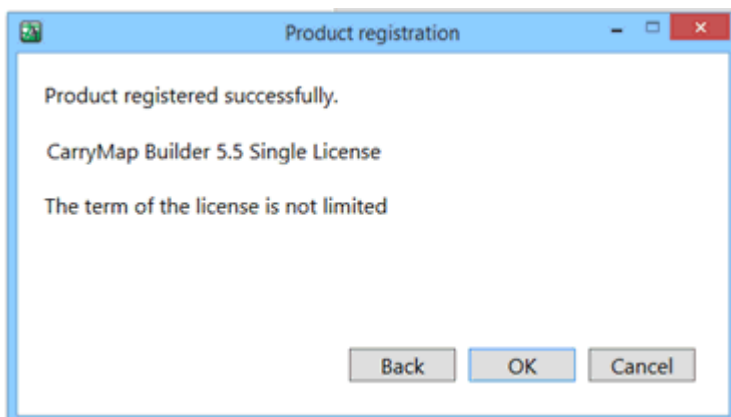
Select the activation method and press **Next**.



Select the product version to be registered and press **Next**.

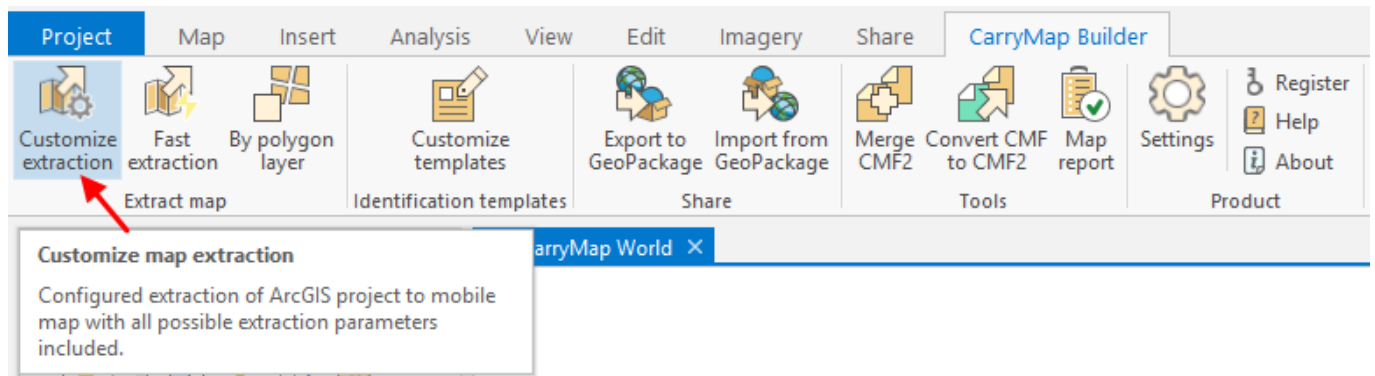


Your CarryMap Builder license is registered. Press **OK** to continue.

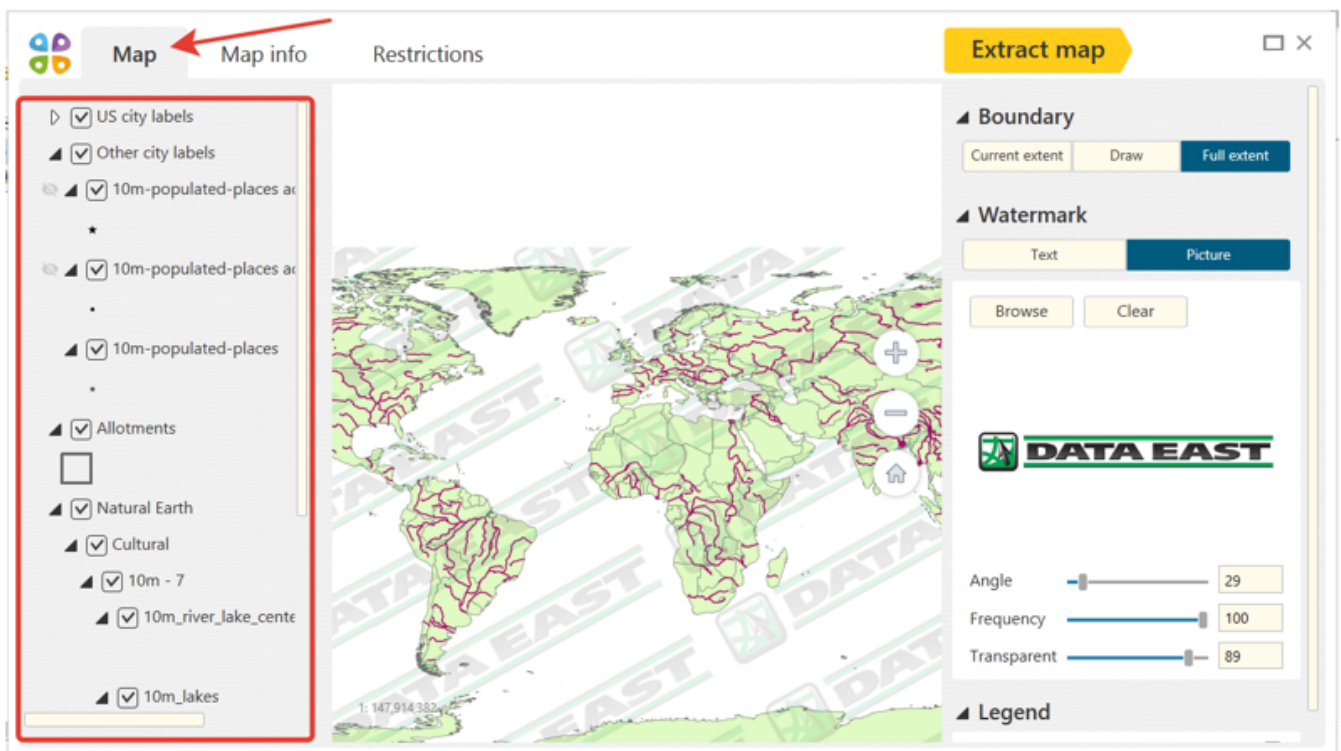


Selecting layers from ArcGIS Pro project to be extracted to CMF2 map

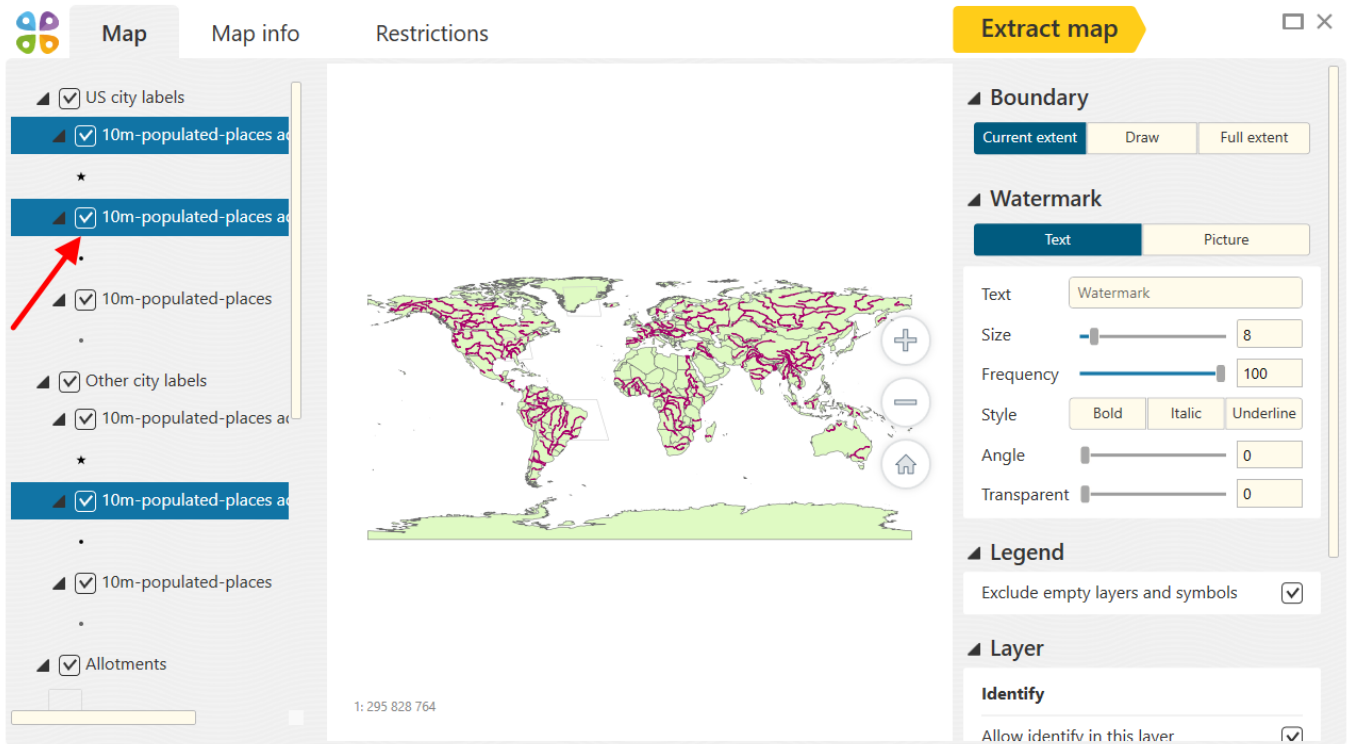
To select ArcGIS Pro layers that need to be extracted to mobile map, press **Customize extraction** button on the **CarryMap Builder** tab.




In the **Map** section in the left part of the window the list of layers of the current ArcGIS Pro document will be shown.

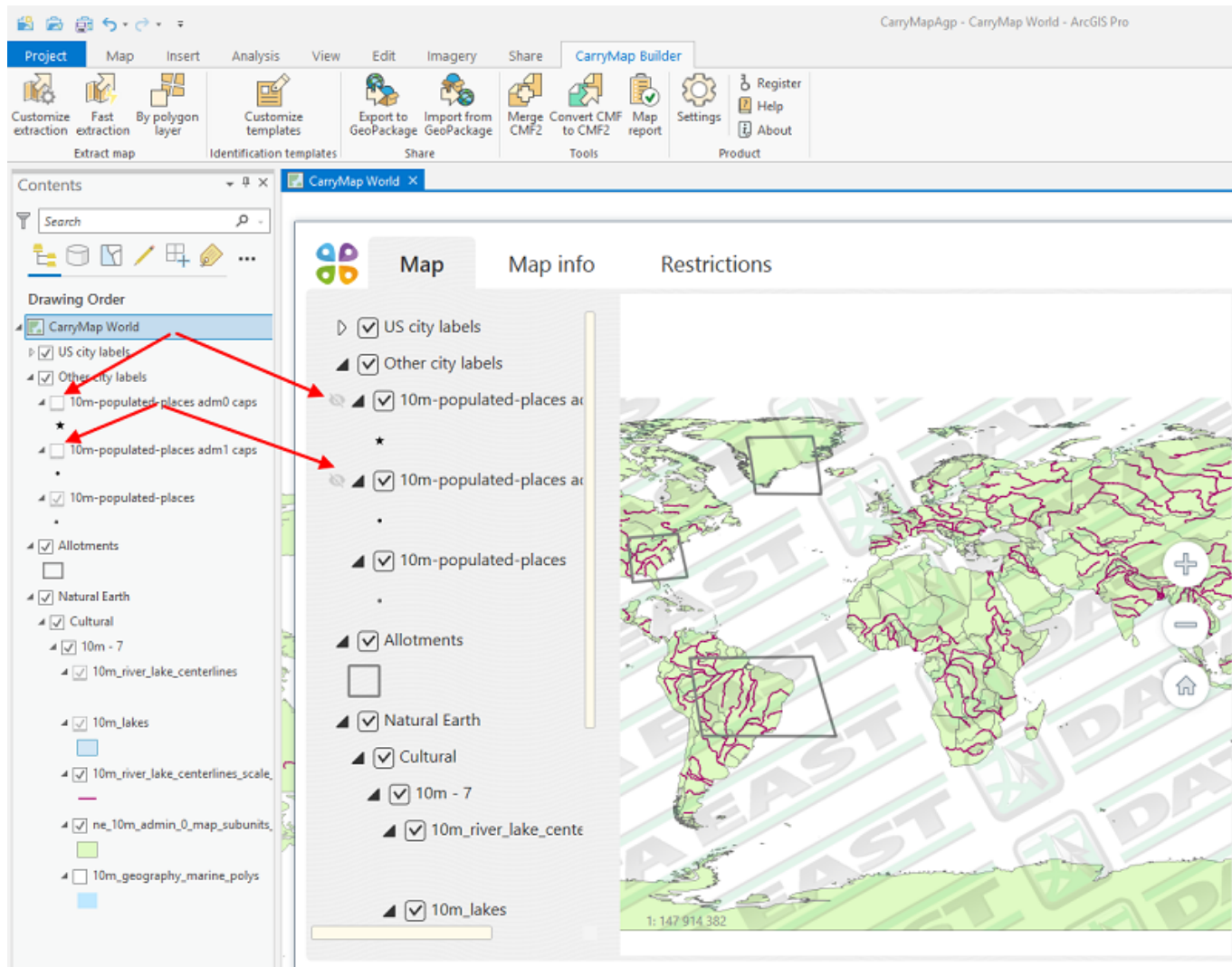


To add or to exclude one or multiple layers from the extraction, select them in the **Customize map extraction** tool dialog and check/uncheck the box near the required layer name.



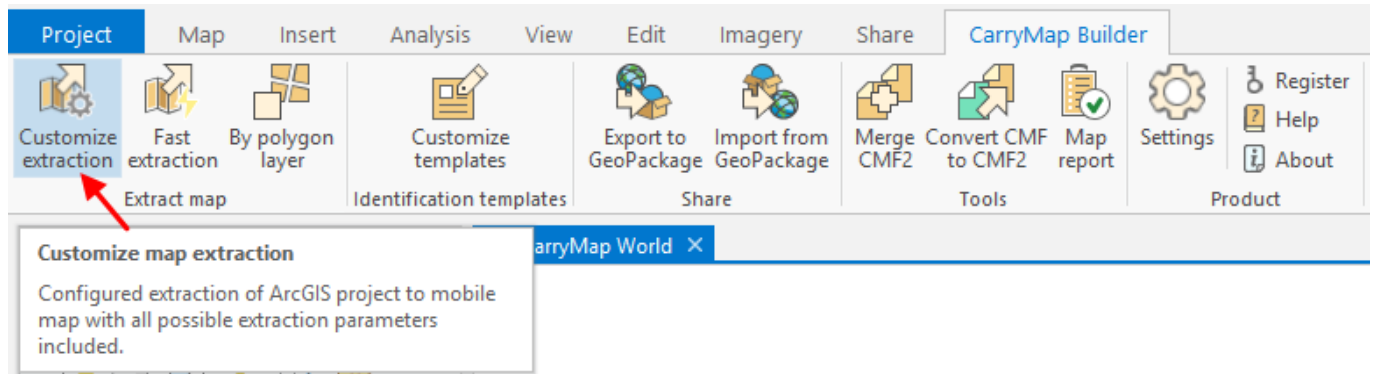
By default the layers visibility set in ArcGIS Pro will be saved in CarryMap Builder.

The invisible layer that has been added to extraction will be marked as  in the map legend.



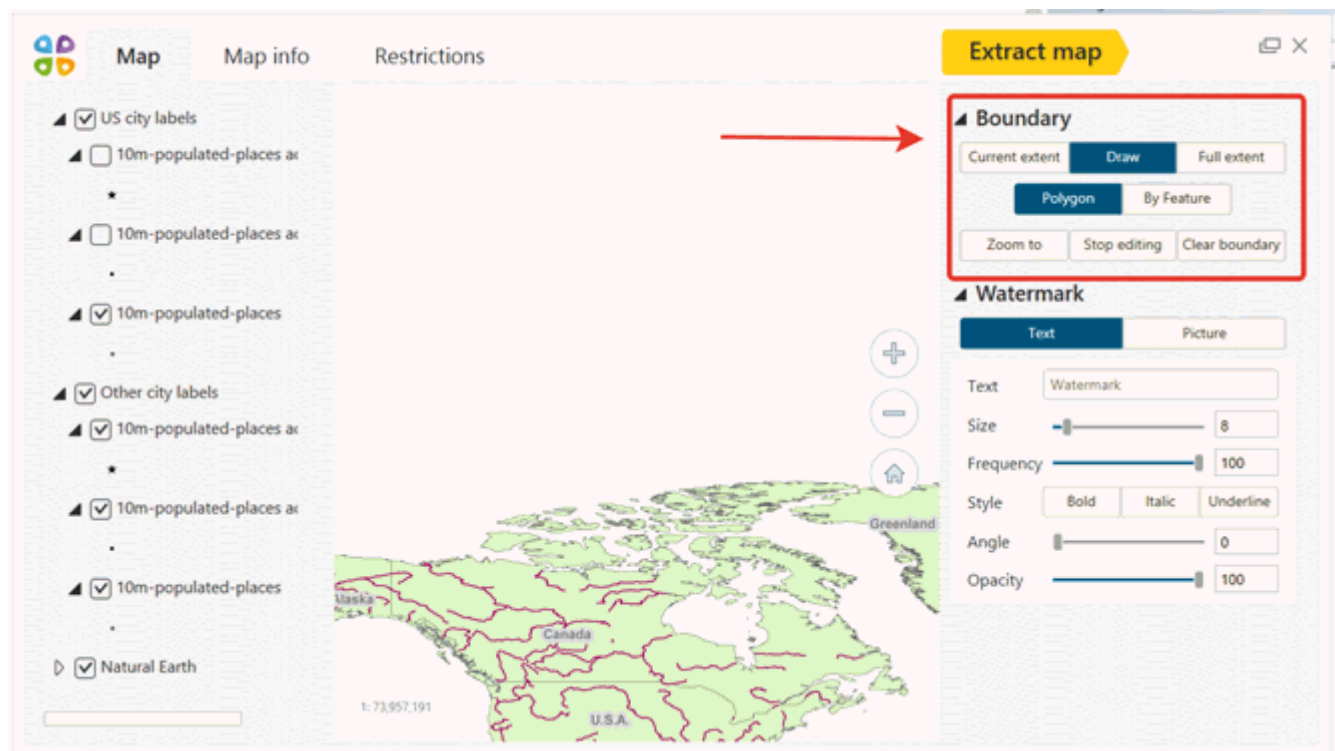
Setting mobile map boundary

Mobile maps can be created from any ArcGIS Pro project or its part. To set boundary of your future mobile map, press **Customize extraction** button on the **CarryMap Builder** tab.



Go to **Map** section, **Boundary** menu. Specify boundary of your ArcGIS Pro map that needs to be exported to mobile map, selecting one of the provided options:

- Current extent
- Draw
- Full extent

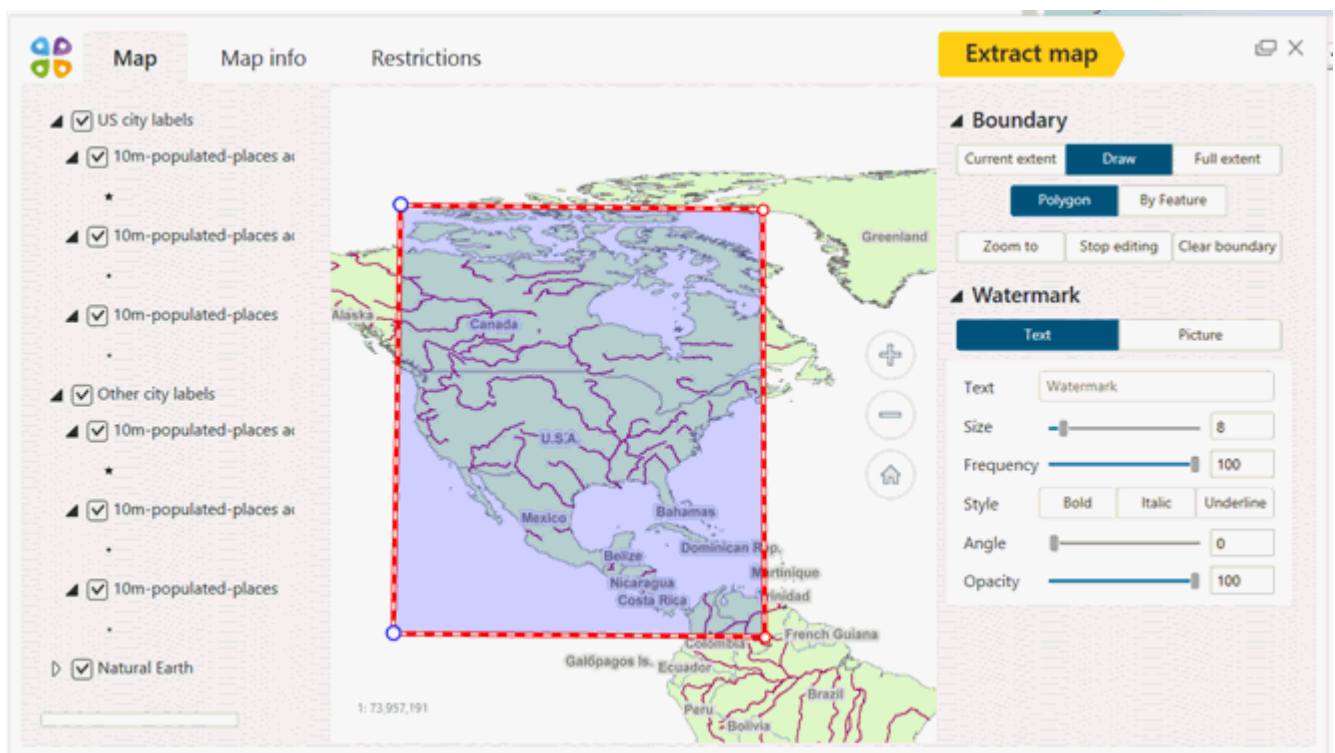


If you select **Current extent** option, the map will be extracted by the boundary of the map area shown in the CarryMap Builder preview window.

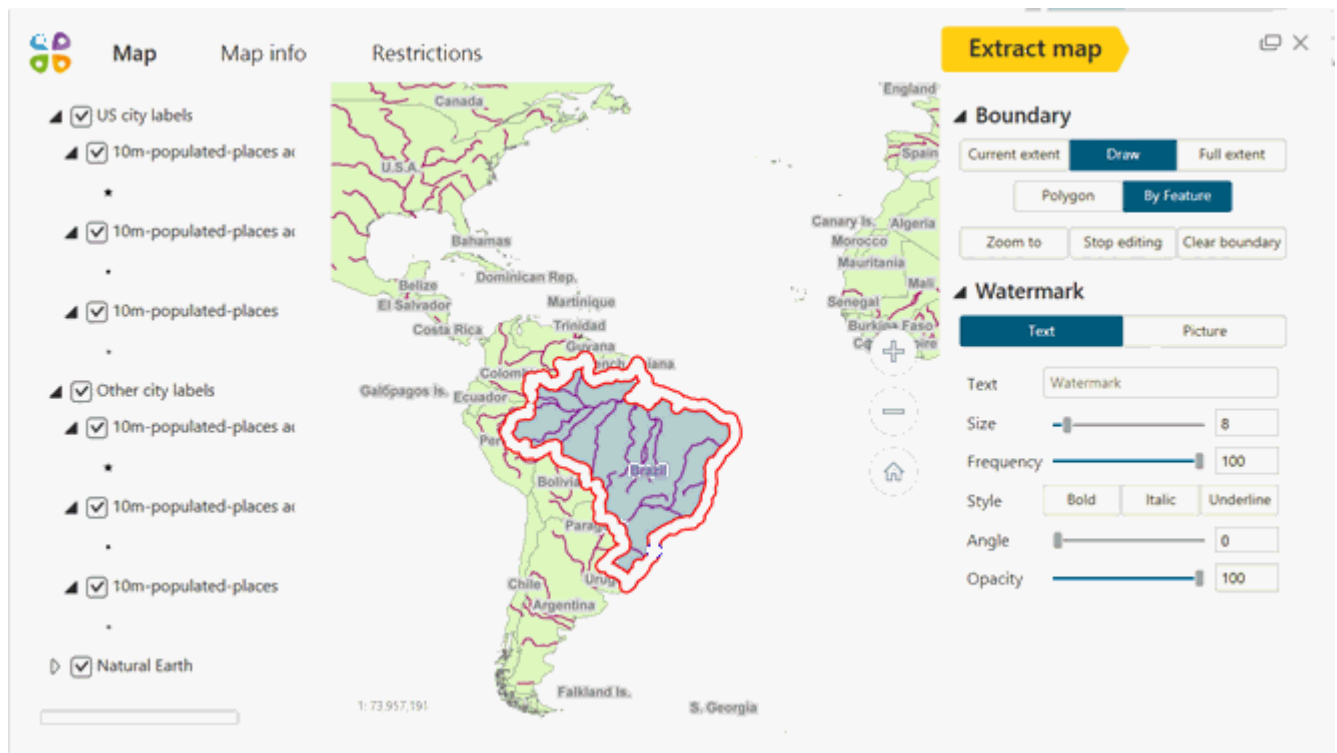


The **Draw** option is provided for cases when you want your mobile map to be created by boundary of the drawn graphics on map or by boundary of any existing polygon feature.

To create mobile map by drawn geometry, press **Draw** button and in the CarryMap Builder preview window draw the boundary of your future mobile map with your mouse.



To create the map by the existing polygon feature boundary, press **By Feature** button and click the required vector or graphic polygon on the map. The selected polygon will be marked red.



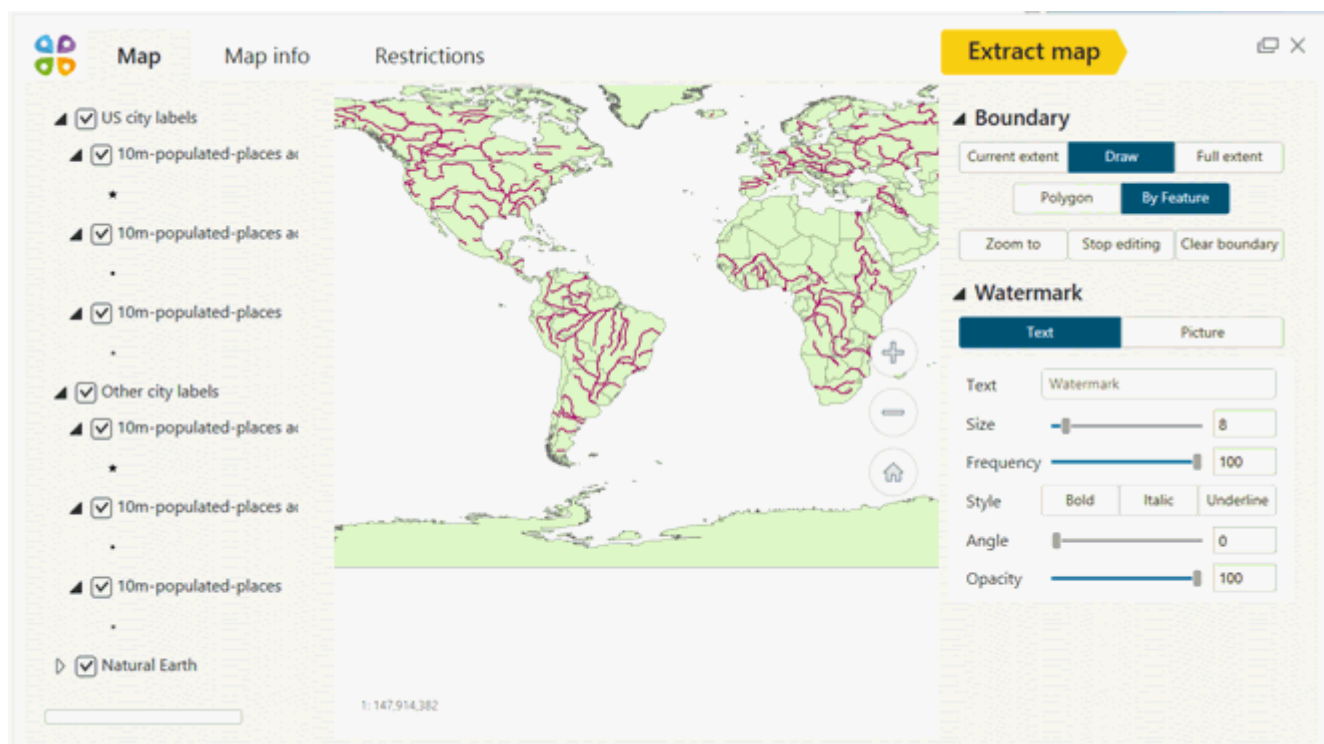
To zoom your map to the boundary of the output mobile map extracted by selected polygon, press **Zoom to**. The scale of the map shown in the CarryMap Builder preview window will be changed respectively.



To finish the process of setting the mobile map boundary by selected polygon, press **Edit boundary**. The selected area will be highlighted in the CarryMap Builder preview window.



To delete the boundary specified by feature or polygon, press **Clear boundary** button. Now you can start setting the mobile map boundary again.



If you select **Full extent** option, your current ArcGIS Pro project will be fully extracted to mobile map (including all the features and layers selected for extraction).

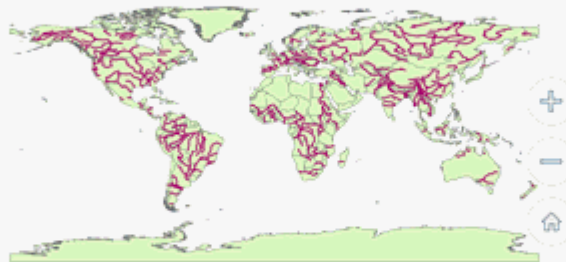


Map

Map info

Restrictions

- ☒ US city labels
- ☒ 10m-populated-places ar
-
- ☒ 10m-populated-places ar
-
- ☒ 10m-populated-places
-
- ☒ Other city labels
- ☒ 10m-populated-places ar
-
- ☒ 10m-populated-places ar
-
- ☒ 10m-populated-places
-
- ☒ Natural Earth



Extract map



Boundary

Current extent Draw Full extent

Watermark

Text Picture

Text Watermark

Size 8

Frequency 100

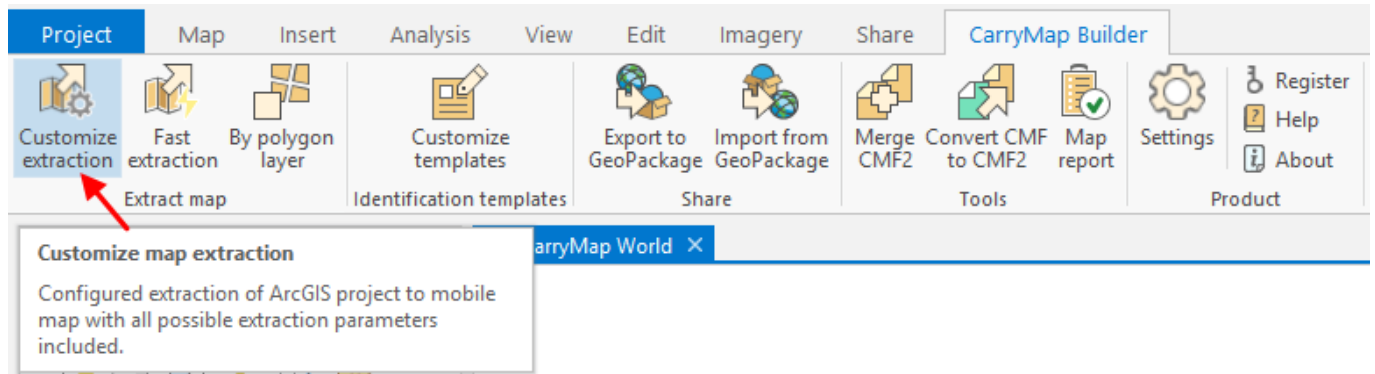
Style

Angle 0

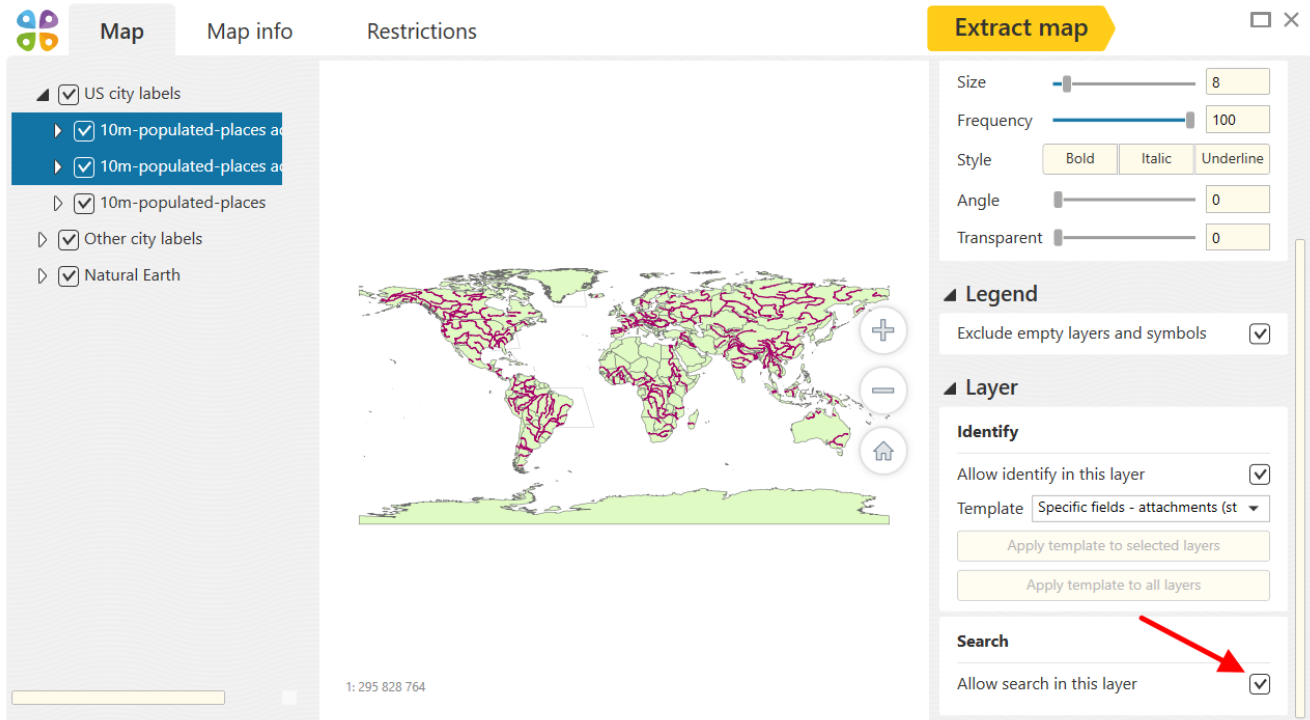
Opacity 100

Setting custom search on map

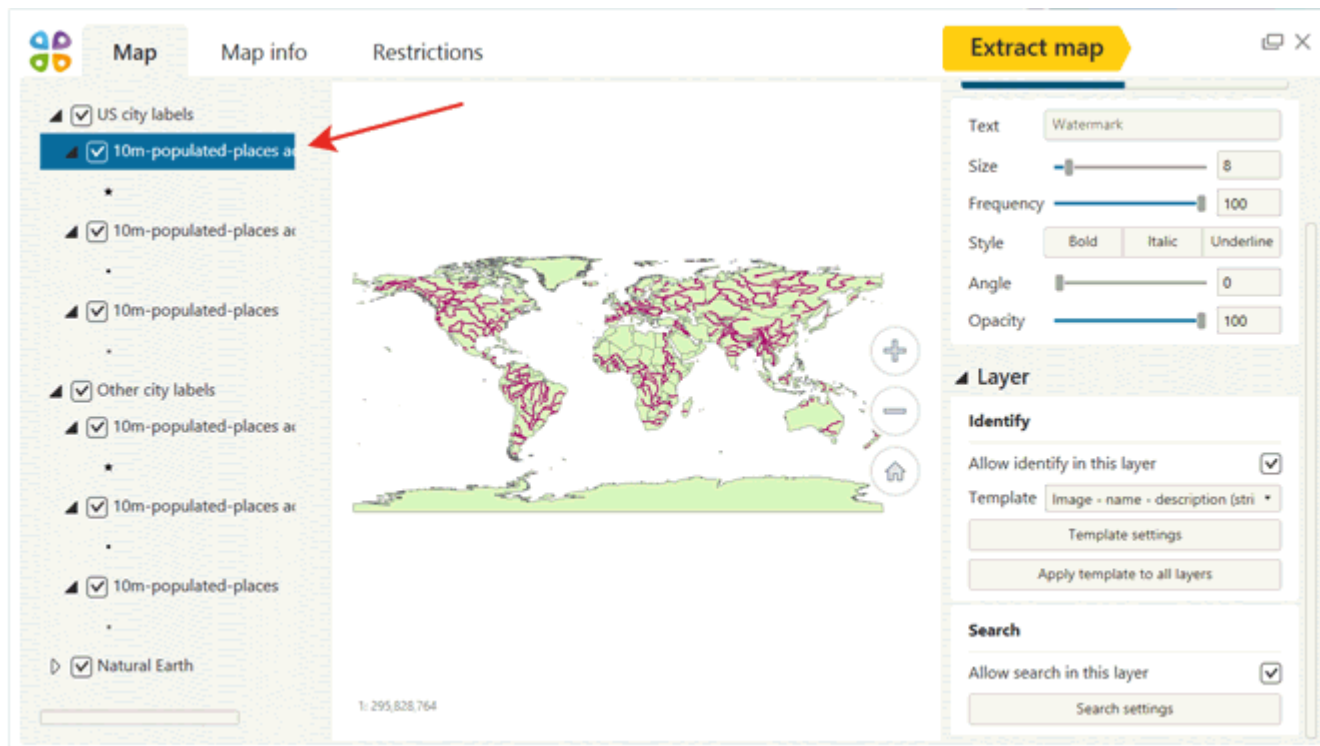
When preparing your ArcGIS Pro map for export to mobile map you can specify search settings to be able to search features. To allow users to search features in mobile app CarryMap, run **Customize map extraction** tool on **CarryMap Builder** tab.



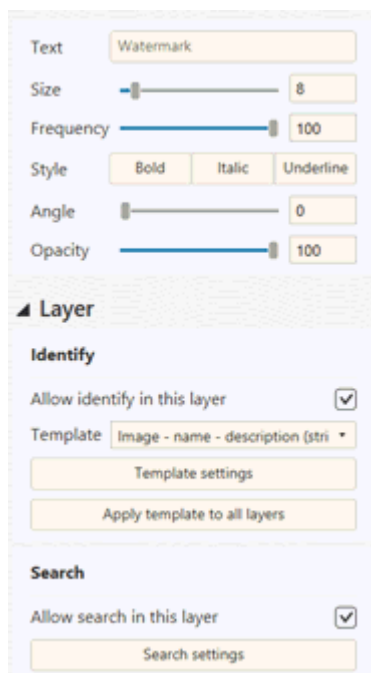
To allow searching for features in one or multiple layers, select them in the **Customize map extraction** tool dialog and check the box near the **Allow searching in this layer** option.



Click one of the layers in the map legend to specify settings for searching features in this layer.



In the appeared menu scroll down and press **Search settings** button.



Select layers which features need to be searchable checking the boxes ☒ near them. Uncheck the boxes ☐ for fields that do not need to be searchable.

← Search settings

Filter by field name

Numeric Text Selected

<input type="checkbox"/>	Name	Type
<input type="checkbox"/>	scalerank	SmallInteger
<input type="checkbox"/>	natscale	SmallInteger
<input type="checkbox"/>	labelrank	SmallInteger
<input checked="" type="checkbox"/>	featurecla	String
<input checked="" type="checkbox"/>	name	String
<input checked="" type="checkbox"/>	namepar	String
<input checked="" type="checkbox"/>	namealt	String
<input type="checkbox"/>	diffascii	SmallInteger
<input checked="" type="checkbox"/>	nameascii	String
<input checked="" type="checkbox"/>	capin	String
<input type="checkbox"/>	megacity	SmallInteger

As searchable fields you can select both numeric and text fields. By default all fields for layer included to extraction are searchable.

Sorting fields in search settings

To show only numeric fields in the search settings window, press **Numeric** button.

← Search settings

Filter by field name

Numeric Text Selected

<input type="checkbox"/>	Name	Type
<input type="checkbox"/>	scalerank	SmallInteger
<input type="checkbox"/>	natscale	SmallInteger
<input type="checkbox"/>	labelrank	SmallInteger
<input type="checkbox"/>	diffascii	SmallInteger
<input type="checkbox"/>	megacity	SmallInteger
<input type="checkbox"/>	namediff	SmallInteger
<input type="checkbox"/>	pop_max	Integer
<input type="checkbox"/>	pop_min	Integer
<input type="checkbox"/>	pop_other	Integer
<input type="checkbox"/>	is_match	SmallInteger
<input type="checkbox"/>	checkme	SmallInteger

To show only text fields in the search settings window, press **Text** button.

← Search settings

Filter by field name

Numeric **Text** Selected

<input checked="" type="checkbox"/>	Name	Type
<input checked="" type="checkbox"/>	featurecla	String
<input checked="" type="checkbox"/>	name	String
<input checked="" type="checkbox"/>	namepar	String
<input checked="" type="checkbox"/>	namealt	String
<input checked="" type="checkbox"/>	nameascii	String
<input checked="" type="checkbox"/>	capin	String
<input checked="" type="checkbox"/>	sov0name	String
<input checked="" type="checkbox"/>	sov_a3	String
<input checked="" type="checkbox"/>	adm0name	String
<input checked="" type="checkbox"/>	adm0_a3	String
<input checked="" type="checkbox"/>	adm1name	String

To show only fields selected as searchable, press **Selected** button.

← Search settings

Filter by field name

Numeric Text **Selected**

<input checked="" type="checkbox"/>	Name	Type
<input checked="" type="checkbox"/>	featurecla	String
<input checked="" type="checkbox"/>	name	String
<input checked="" type="checkbox"/>	namepar	String
<input checked="" type="checkbox"/>	namealt	String
<input checked="" type="checkbox"/>	nameascii	String
<input checked="" type="checkbox"/>	capin	String
<input checked="" type="checkbox"/>	sov0name	String
<input checked="" type="checkbox"/>	sov_a3	String
<input checked="" type="checkbox"/>	adm0name	String
<input checked="" type="checkbox"/>	adm0_a3	String
<input checked="" type="checkbox"/>	adm1name	String

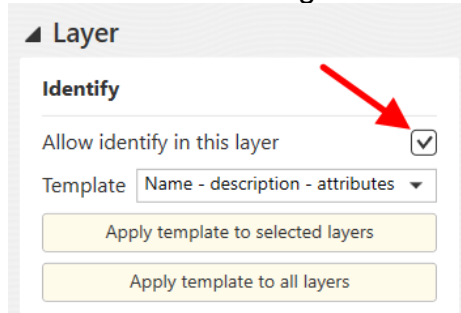
Note that you can apply multiple sorting options at a time, if needed.

Setting features identification

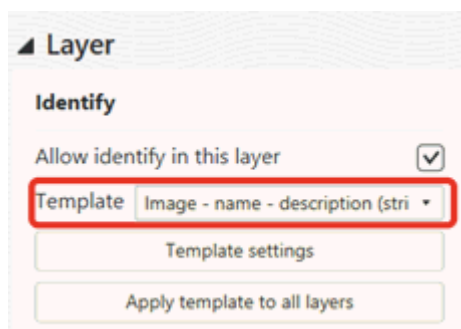
The additional information about surrounding objects may be very helpful, especially if you found yourself in the unfamiliar place. To make your mobile map as informative as possible, select the layers of your ArcGIS Pro map that you want to be identifiable in the mobile map. That said, your users will be able to get information about features from these layers selecting them on the mobile map and viewing the appeared identification dialogs.

The information about feature in the identification dialog can be shown differently based on used identification templates. That is, you can use the existing (system) templates that will define the view of the identification dialogs in the output mobile map, or create your own (custom) templates. See **Customize identification templates** section for more detail.

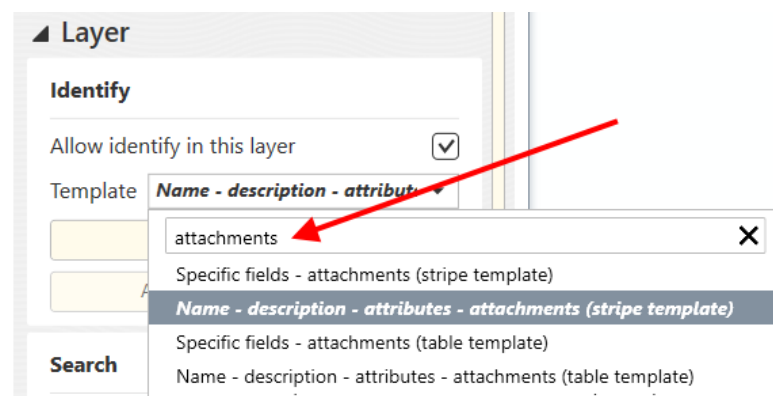
To allow features identification in one or multiple layers, select them in the **Customize map extraction** tool dialog and check the box near the **Allow identify in this layer** option.



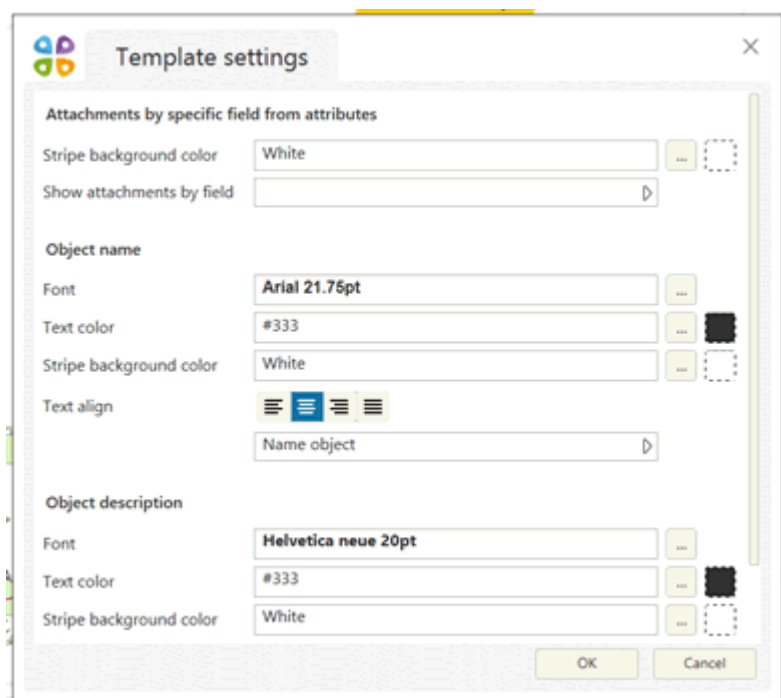
Click one of the layers in the map legend to specify settings for feature identification card. In the **Template** field select the previously created custom or system template from the list that will be used to display information about features of the specified layer.



To filter the templates presented in the list, enter the template name in the filter box.



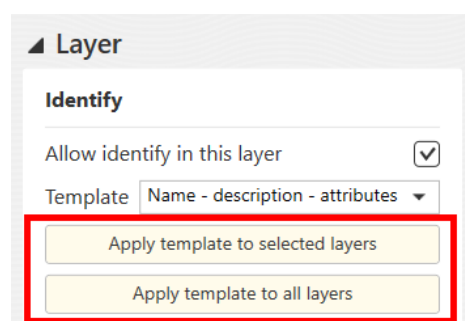
To change settings specified during template creation or to set parameters for the layer, press **Template settings** button and make necessary changes in settings or parameters in appeared window. See **Customize identification templates** section for more detail.



In the Template settings window, you can specify the following options:

- Select text size, font and color;
- Select background color of stripes with information;
- Select text alignment;
- Select fields that will be shown during feature identification;
- Select attachments (photo, video, documents etc.) that will be shown during feature identification.

To apply specified template to all or selected layers of the map, select the required layer/layers in the list of layers and press **Apply template to all layers** or **Apply template to selected layers**.

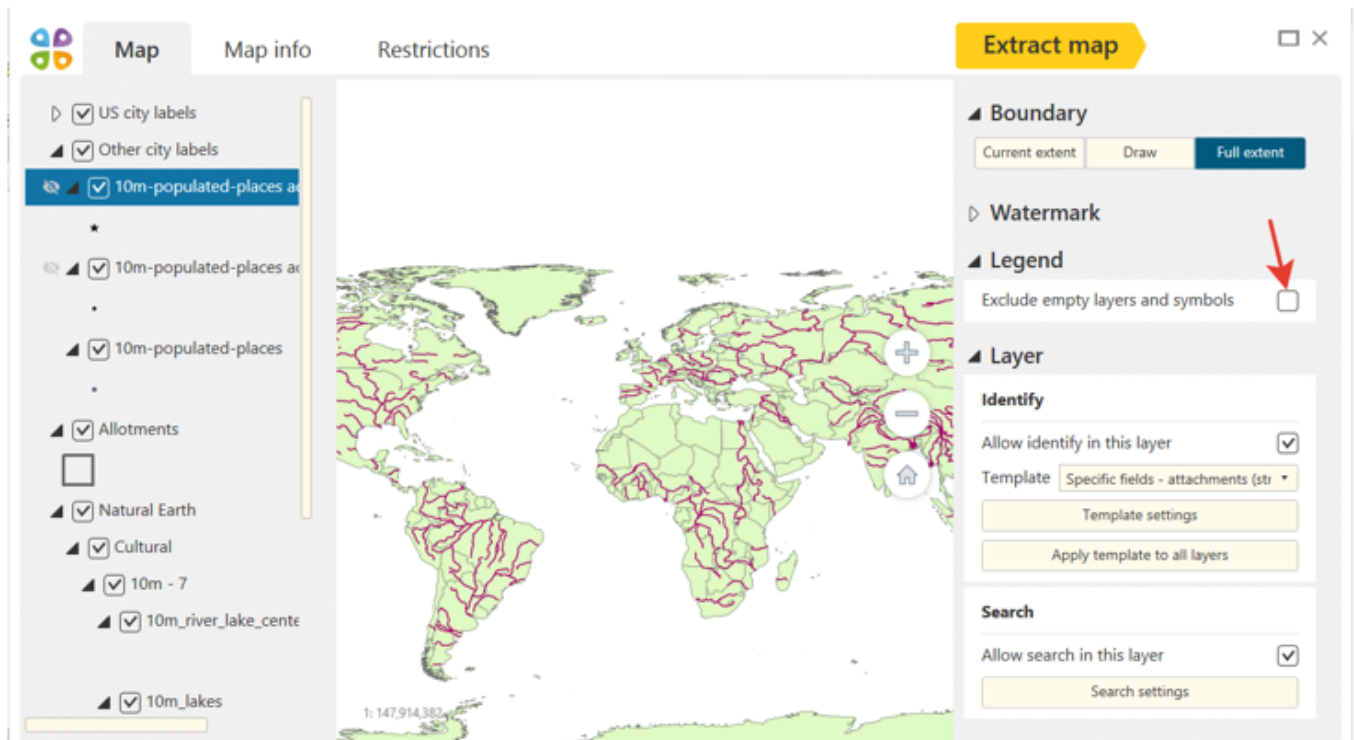


Note that the **Apply template to selected layers** option is available only if multiple layers are selected in the list of layers.

See **Customize identification templates** section to learn more about setting identification templates.

Excluding empty layers and symbols from map extraction

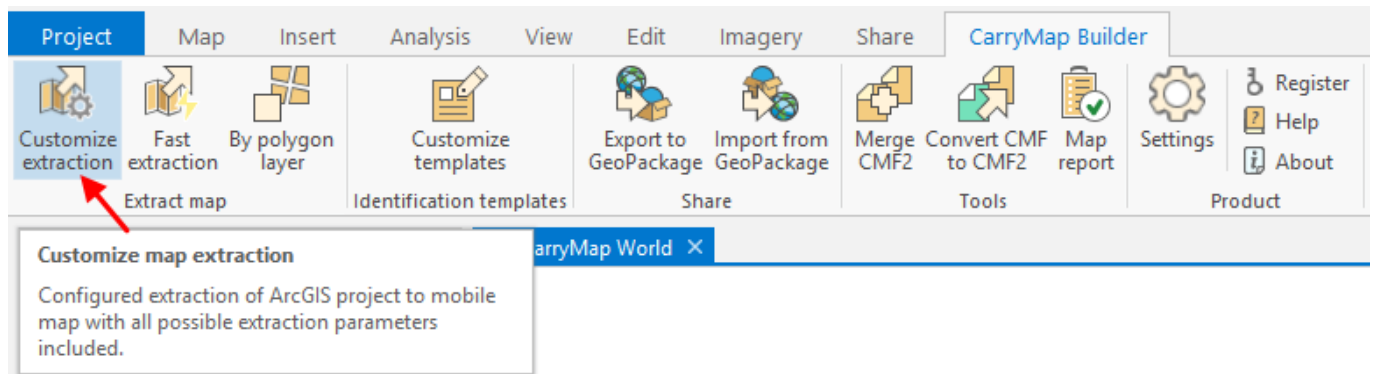
To exclude empty layers from the map extraction, check the Exclude empty layer and symbols option in the Legend section of the Customize map extraction window.



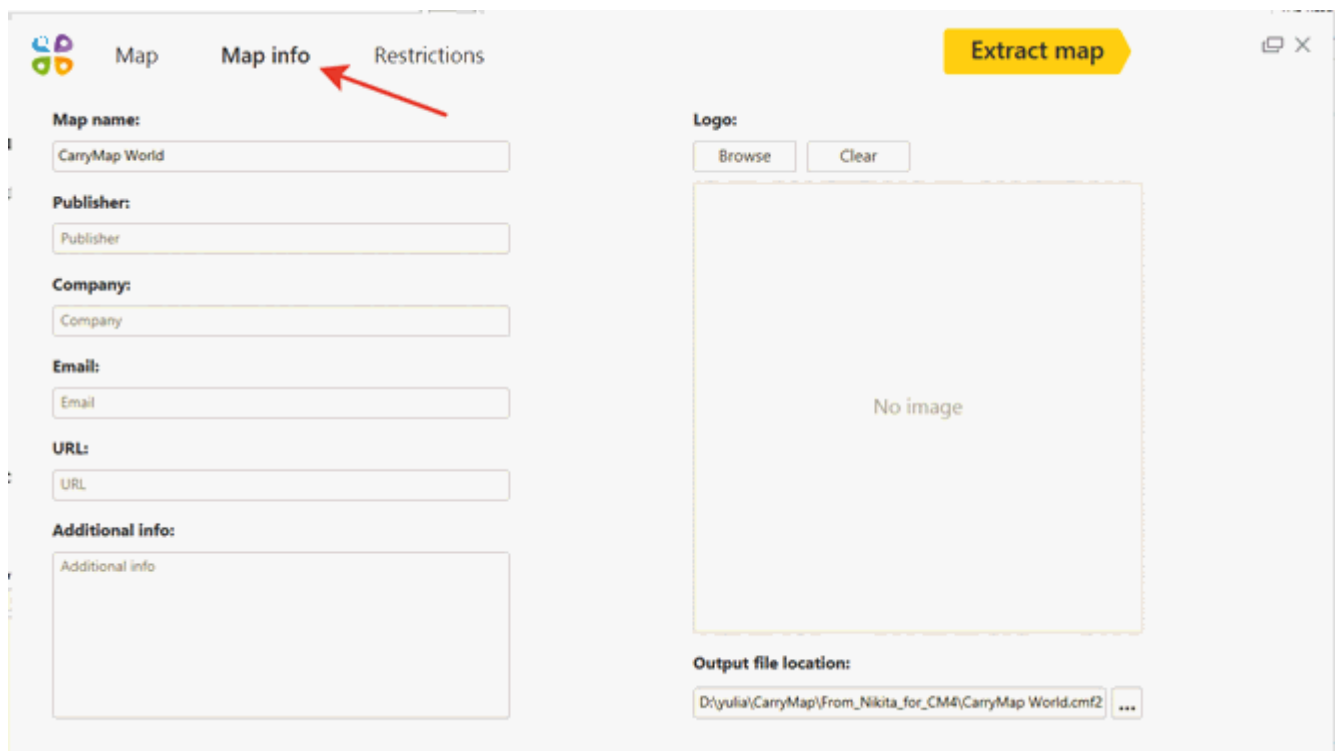
Specifying map properties

When preparing your ArcGIS map for export to mobile map you can create a summary info about your map that will be shown in the **About map** dialog. That is, when opening this dialog, your users will see information about the map publisher, company name and logo, website, contact email, and map description.

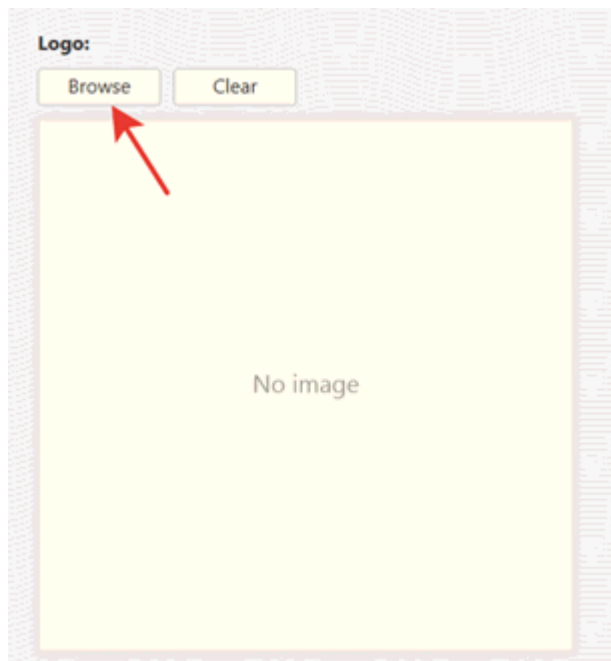
To set the **About map** dialog content, press **Customize extraction** button on the **CarryMap Builder** tab.



Go to **Map info** tab and fill in all the required fields: map name, publisher, company, email, URL, additional info.



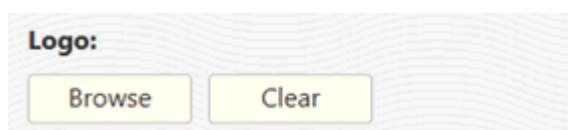
To add logo, press **Browse**.



In the appeared window select the required pic and it will be shown in the preview window.



To delete added logo, press **Clear**.

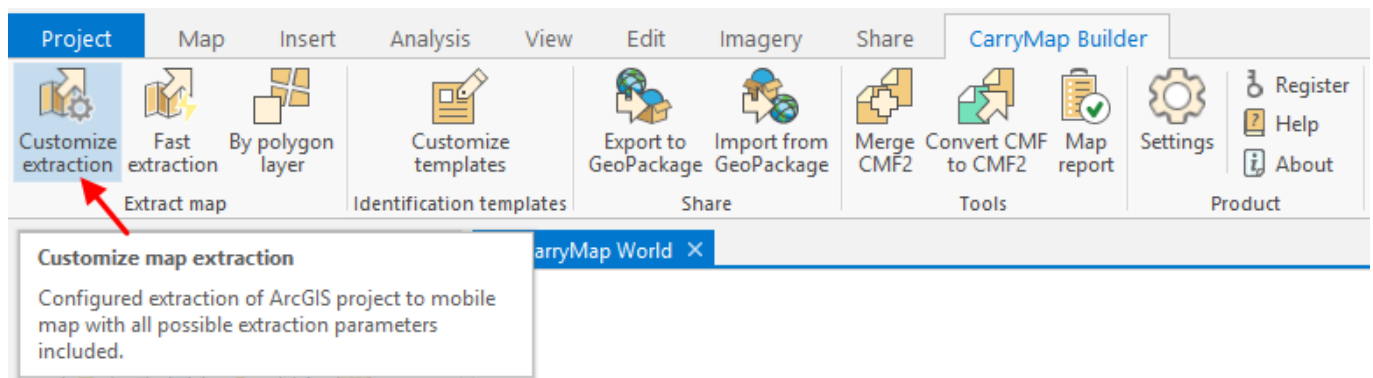


Setting mobile map protection

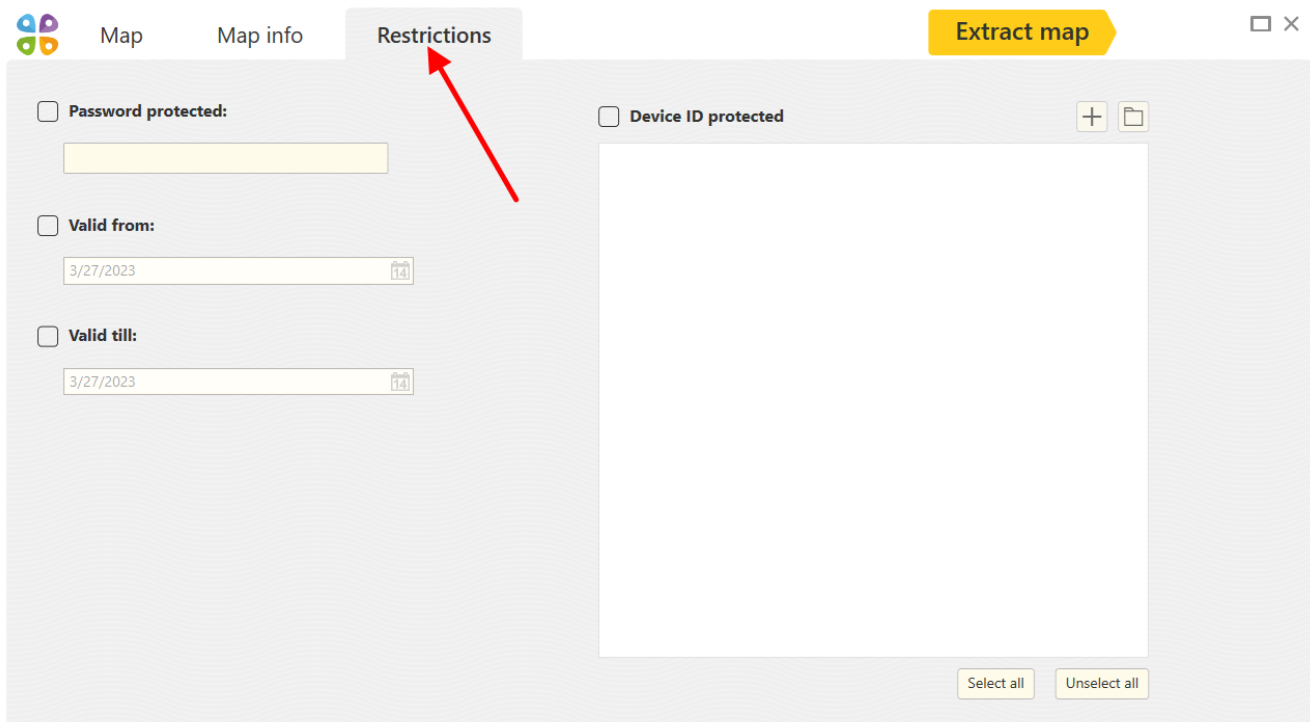
No need to worry about your data integrity, especially if it goes about sensitive data, as you can always prevent its unauthorized distribution by managing access to your mobile map with one of the provided protection options or with all of them at a time.

You can protect your mobile map with password, or allow access for selected devices only, or set map availability date specifying period when your mobile map will be available for users. Thus, each time the users open your mobile map in CarryMap app, they will be asked to either enter the password or the device ID, or the map will become unavailable after specified date, respectively.

To specify map protection settings, press **Customize extraction** button on the **CarryMap Builder** tab.



Go to **Restrictions** tab.



To protect your map by password, check **Password protected**. In the appeared dialog enter the password.

☒ Password protected:

.....

To cancel protection by password setting, uncheck **Password protected** option.

☐ Password protected:

.....

To protect you map by availability date, check **Valid from**.

☒ Valid from:

5/23/2019

This will be the date starting from which your map will be available for use. By default the current date is suggested, but you can change it pressing the calendar icon and selecting the needed date

☒ Valid from:

5/25/2019

May 2019

Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3	4	5
6	7	8	9	10	11	
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

To set the date from which your map will not be allowed for use, check **Valid till**.

☒ Valid till:

5/25/2019

By default the current date is suggested, but you can change it pressing the calendar icon and selecting the needed date.

☒ Valid till:

5/25/2019

May 2019


Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

To cancel protection by map availability date, uncheck **Valid from** and **Valid till** options.

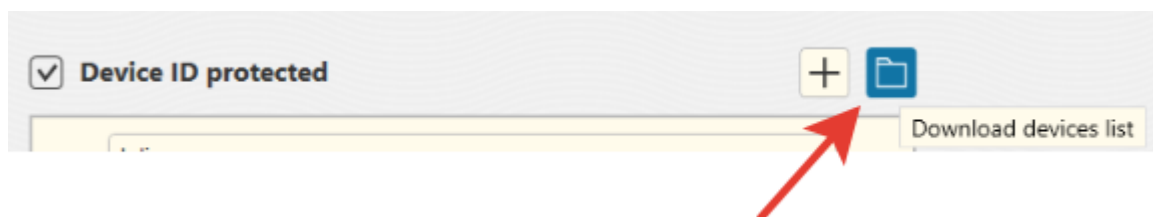
To allow opening your map on selected devices only, check **Device ID protected** option.



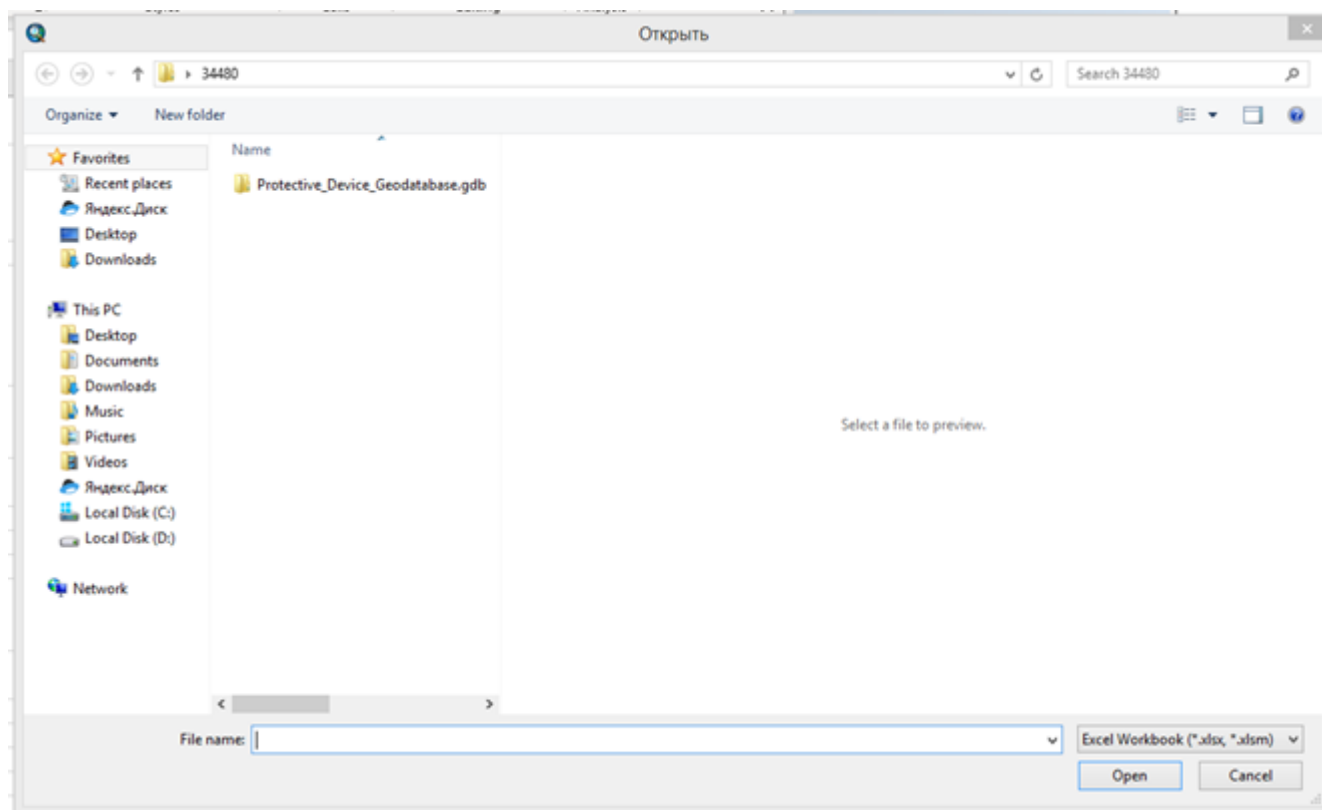
Press  and enter the device name (device owner name, for example) and device ID.

You can allow opening your map on multiple devices, to do so press  and add as many devices as needed same as described above.

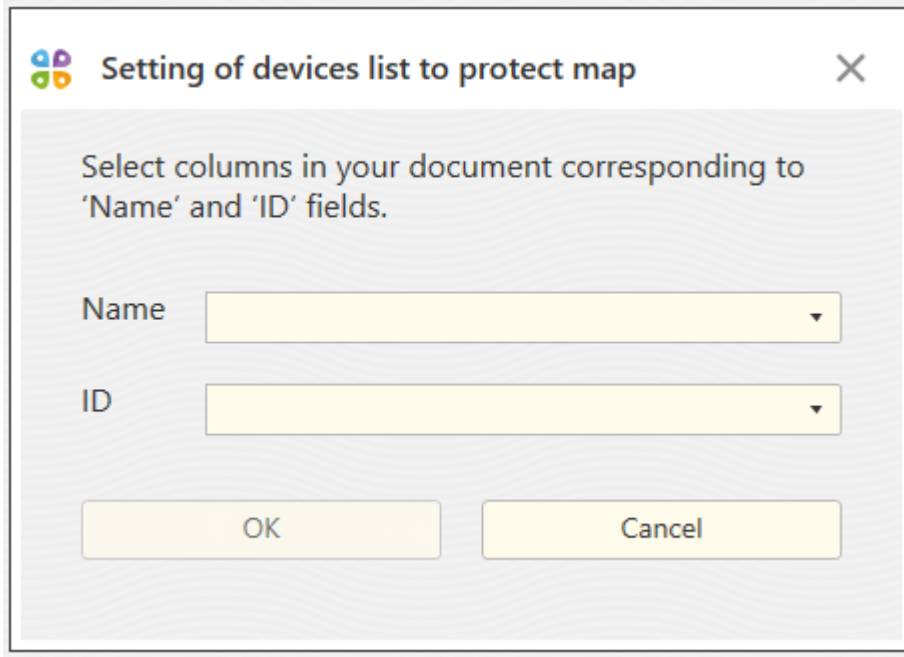
For your convenience, you can download the pre-arranged list of authorized devices in Excel or CSV format, to do so, press Download devices list button.



In the appeared window select the needed file and press Open.

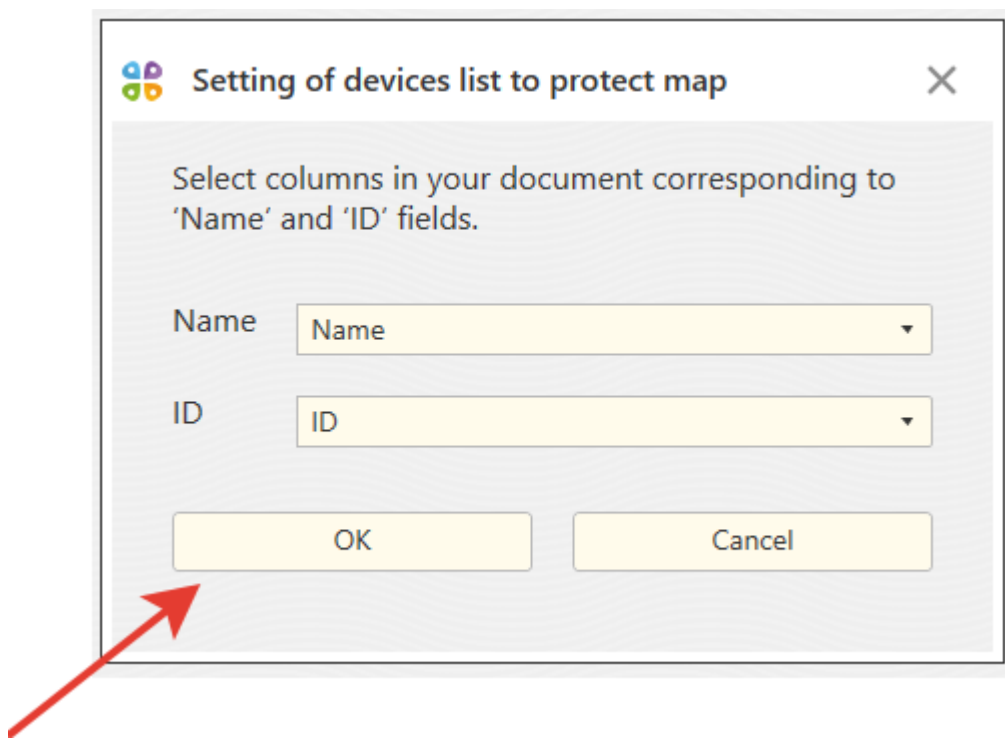


In the appeared table select columns containing the devices owners names and devices IDs.



A dialog box titled "Setting of devices list to protect map" with a close button (X) in the top right corner. The dialog contains the instruction "Select columns in your document corresponding to 'Name' and 'ID' fields." Below this, there are two dropdown menus. The first is labeled "Name" and the second is labeled "ID". Both dropdown menus are currently empty. At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

Press OK.



A dialog box titled "Setting of devices list to protect map" with a close button (X) in the top right corner. The dialog contains the instruction "Select columns in your document corresponding to 'Name' and 'ID' fields." Below this, there are two dropdown menus. The first is labeled "Name" and contains the text "Name". The second is labeled "ID" and contains the text "ID". At the bottom of the dialog, there are two buttons: "OK" and "Cancel". A red arrow points to the "OK" button.

In the appeared window you will see the names and IDs of all devices from your list.

☒ **Device ID protected**

+

<input type="checkbox"/>	Julia	123
<input type="checkbox"/>	Andrew	1234
<input type="checkbox"/>	Maxim	1235
<input type="checkbox"/>	Irina	456

Check the boxes near the devices that should be authorized to open your map or press Select all to select all devices at a time.

☒ **Device ID protected**
+
📁

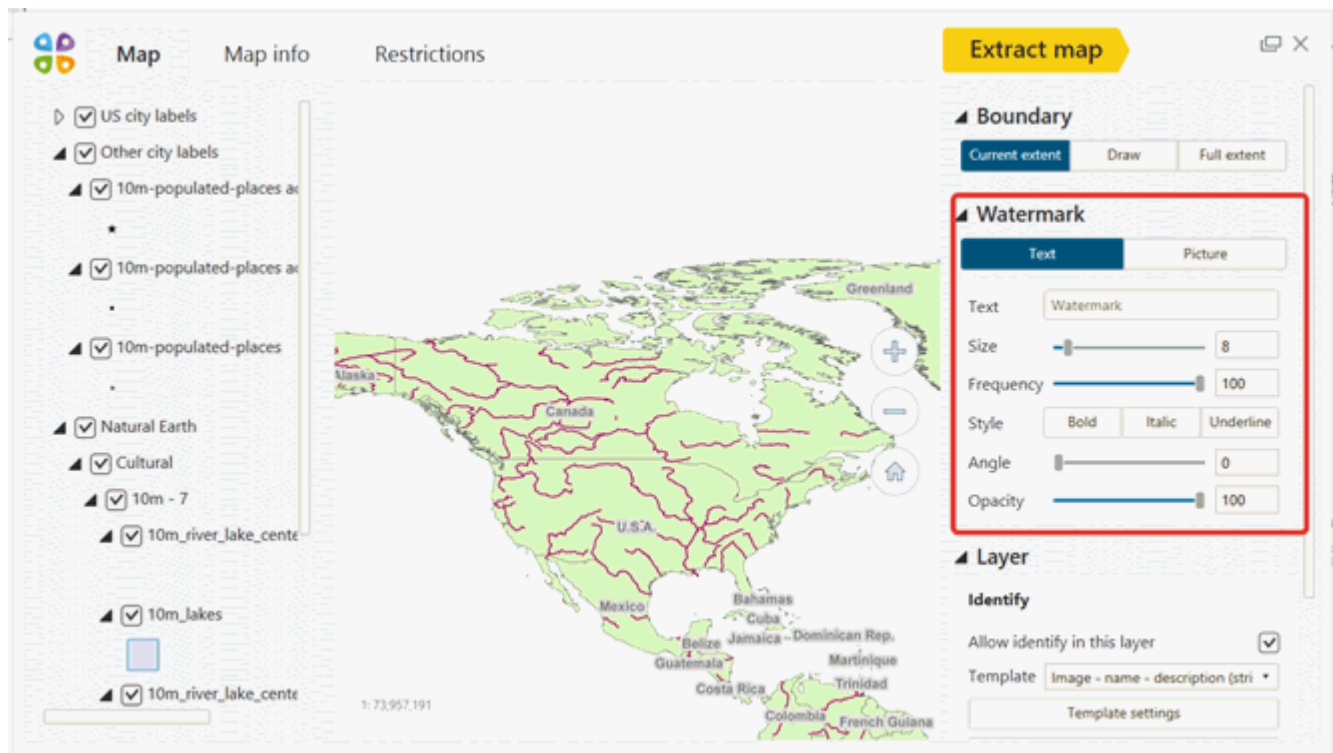
<input checked="" type="checkbox"/>	Julia	123
<input checked="" type="checkbox"/>	Andrew	1234
<input type="checkbox"/>	Maxim	1235
<input checked="" type="checkbox"/>	Irina	456

To delete added device, press cross icon near its name.

☒ Andrew
 ×

123457891234567891423458789789

You can demonstrate your corporate identity and protect you data from unauthorized copying by adding watermarks to your mobile maps. These can be either text or any image with specified transparency and rotation angle settings. To add watermark on map, go to **Map** tab, **Watermark** section.



To add text as the watermark, press

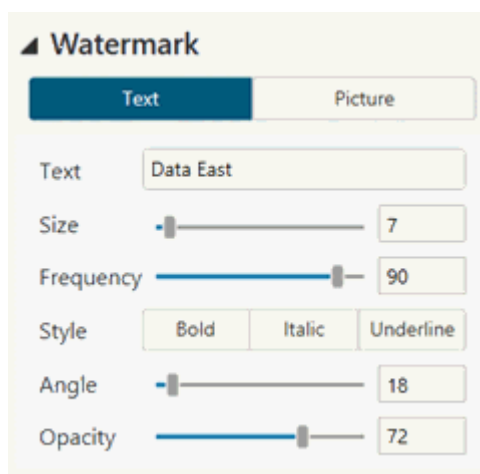
Text

and in the appeared window

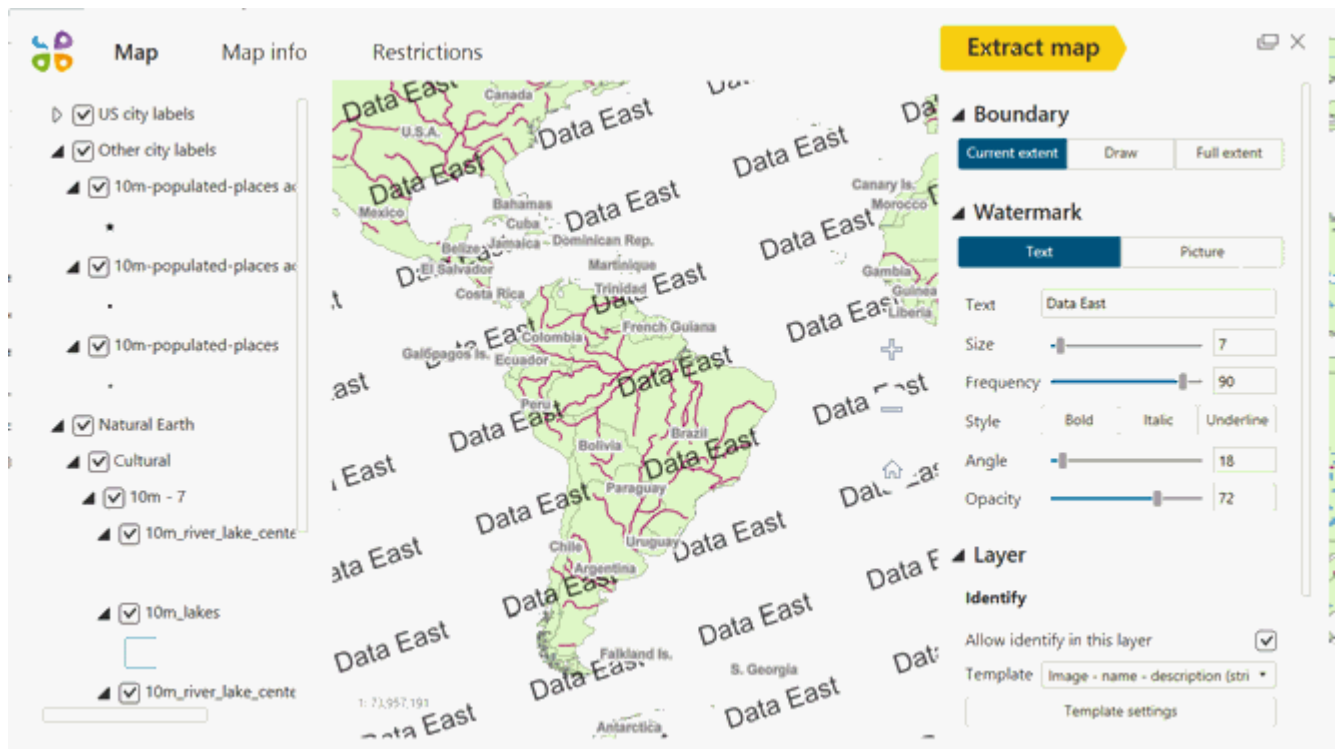
Text

Watermark

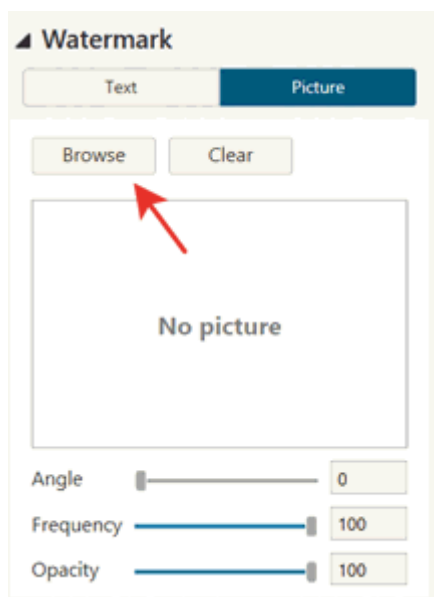
enter your text, set its size, display frequency, style, rotation angle and opacity.



In CarryMap Builder preview window you will see how your watermark will be displayed on map.



To add picture as the watermark, press **Picture** and in the appeared window press **Browse**.



In the appeared dialog select picture and it will be displayed in the preview window. Select all needed settings: display frequency, rotation angle and opacity.


Watermark

Text

Picture

Browse

Clear



Angle

29

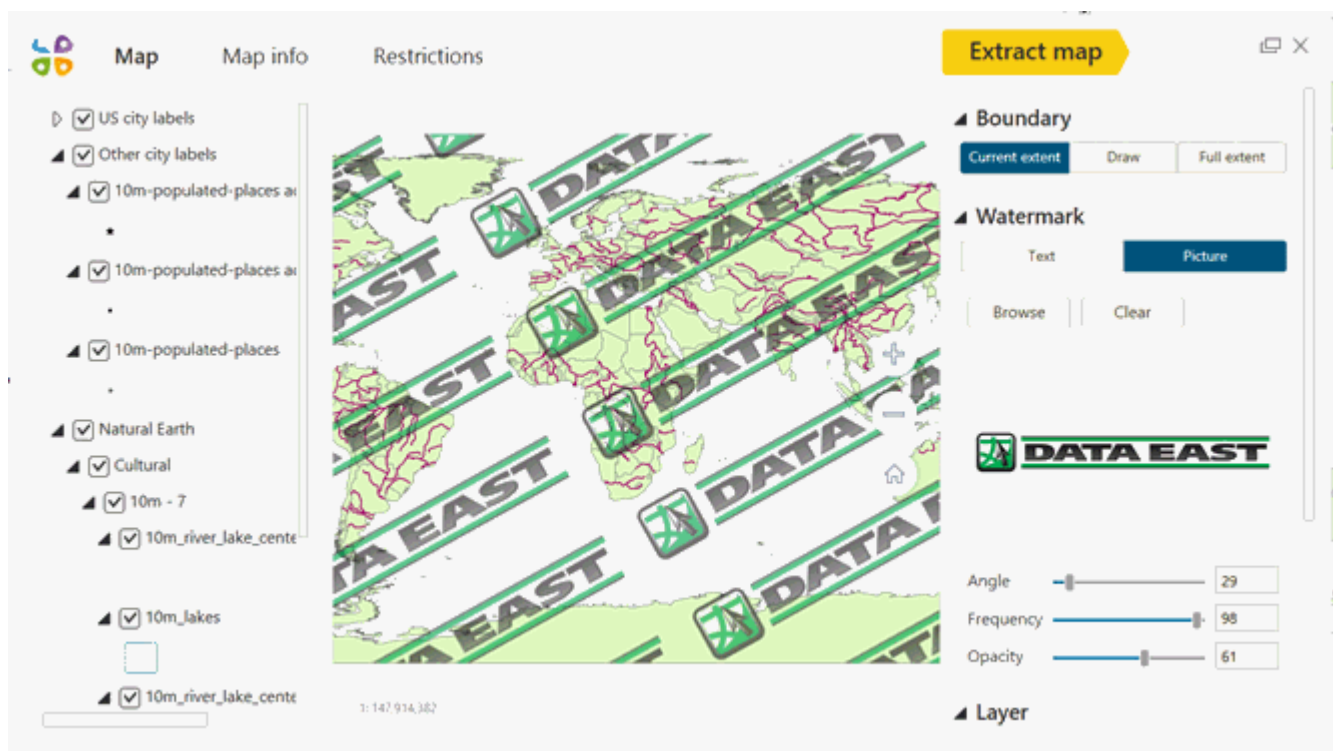
Frequency

98

Opacity

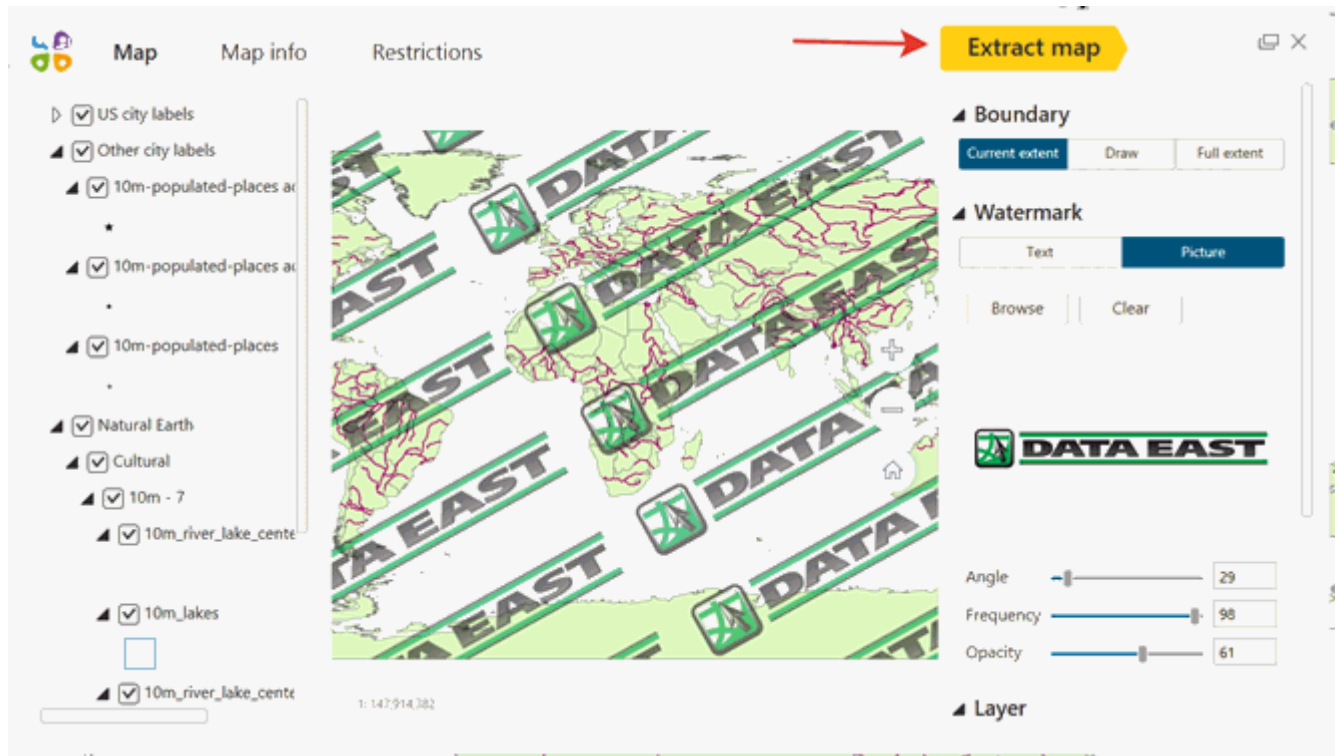
61

In CarryMap Builder preview window you will see how your watermark will be displayed on map.

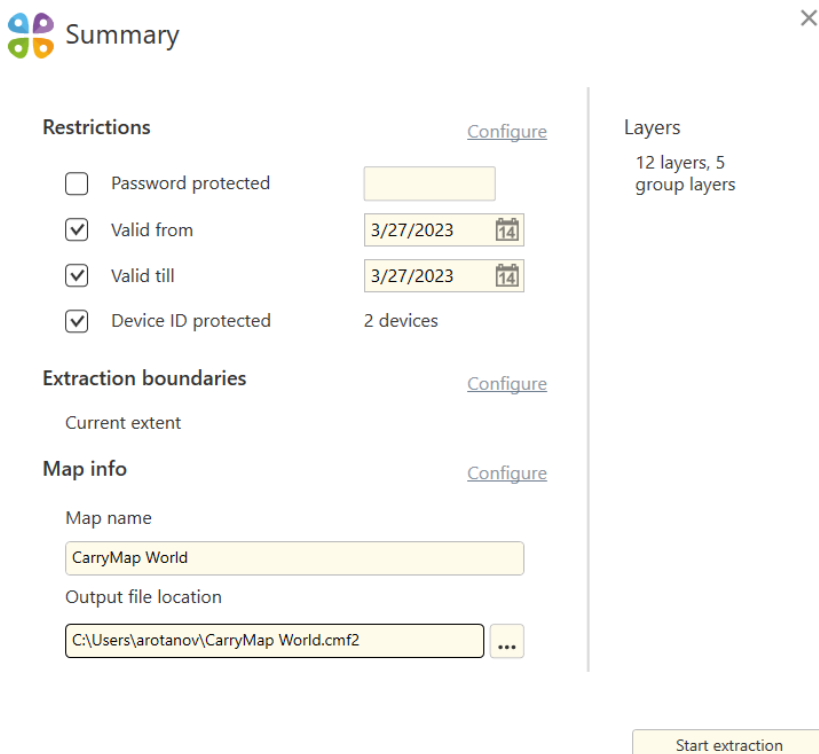


Extracting map

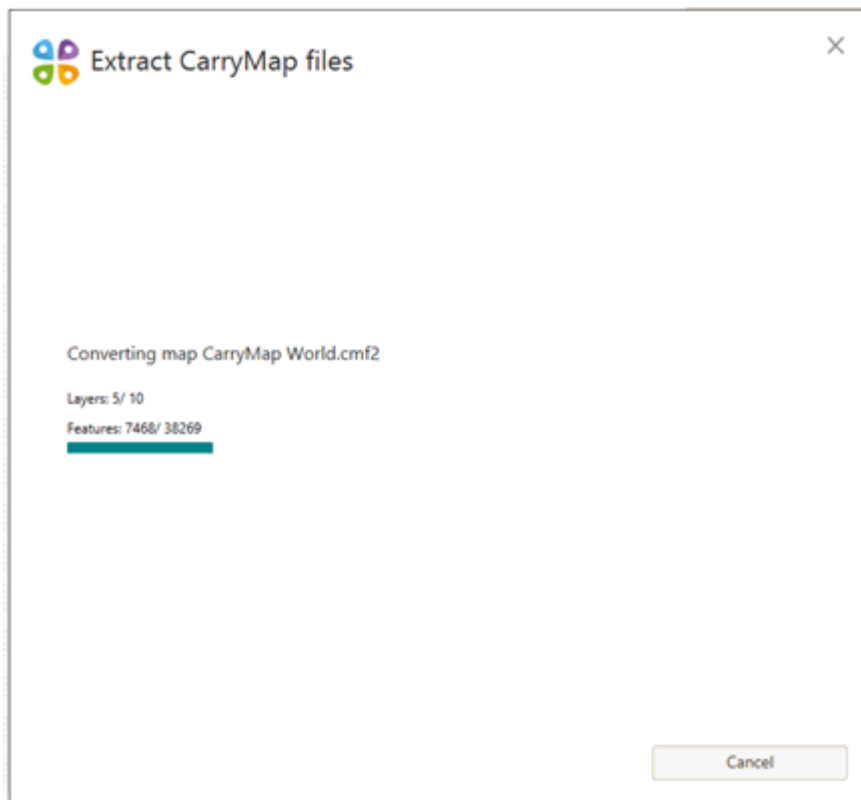
So, as all settings for your future mobile map have been specified, you can move to extraction process. To do so, press **Extract map** button.



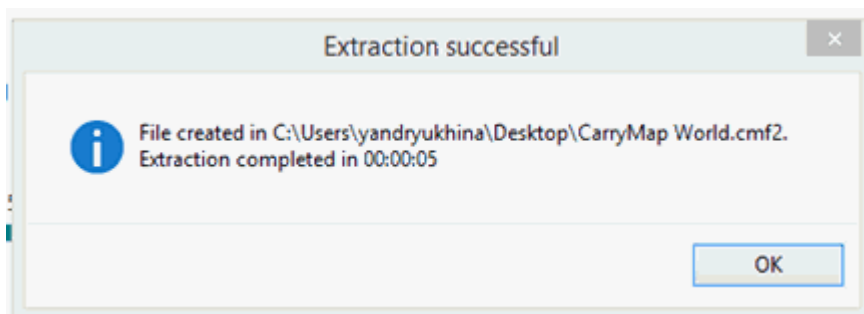
In **Summary** window review the information about your map: output file location, protection settings, boundary and map name. Press **Start extraction** if everything is OK.



The process of extraction of project to mobile map in CMF2 format will start. To cancel process, press **Cancel**.



Upon extraction completion, the following dialog will appear.



Besides, you will see the summary report about created mobile map showing the output file size, feature classes and number of features, coordinate system, etc.



Extraction successful



File name: CarryMap World.cmf2

Total size: 2.06 MB

Total number of features: 2206

Map coordinate system: GCS_WGS_1984

Map info:

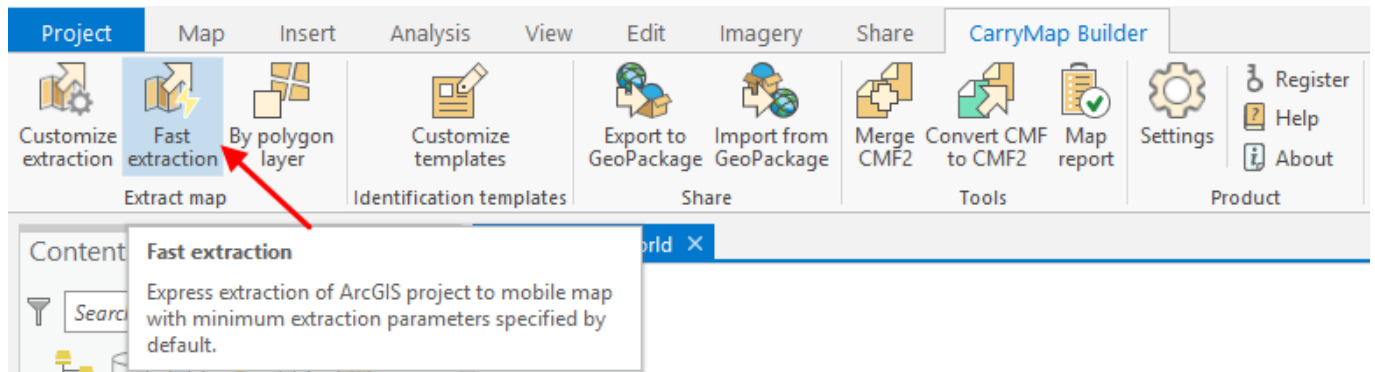
Map name: CarryMap World

Contents	Size	Number of features
Feature classes		
ne_10m_populated_places	2.95 KB	1
ne_10m_populated_places_0	19.99 KB	46
ne_10m_populated_places_1	114.54 KB	463
ne_10m_populated_places_2	14.7 KB	26
ne_10m_populated_places_3	52.76 KB	149
ne_10m_populated_places_4	96.2 KB	381
ne_10m_rivers_lake_centerlines	147.44 KB	90
ne_10m_lakes	355.62 KB	534
ne_10m_rivers_lake_centerlines_scale_rank	188.48 KB	472
ne_10m_admin_0_map_subunits_32	234.2 KB	44
Template data	514.35 KB	
System tables	293.27 KB	


OK

Extracting map fast

If previously specified map settings work for you, you can save your time and use **Fast extraction** tool to create your next mobile maps.





Run the tool and review all settings in the appeared tool dialog once again. If you need to change them, press **Configure** button near the required settings.

 Summary ×

Restrictions

☐ Password protected

☒ Valid from 3/27/2023 

☒ Valid till 3/27/2023 

☒ Device ID protected 2 devices

[Configure](#)

Extraction boundaries

Current extent


[Configure](#)

Map info

Map name

CarryMap World

Output file location

C:\Users\arotnov\CarryMap World.cmf2 

[Configure](#)

Layers

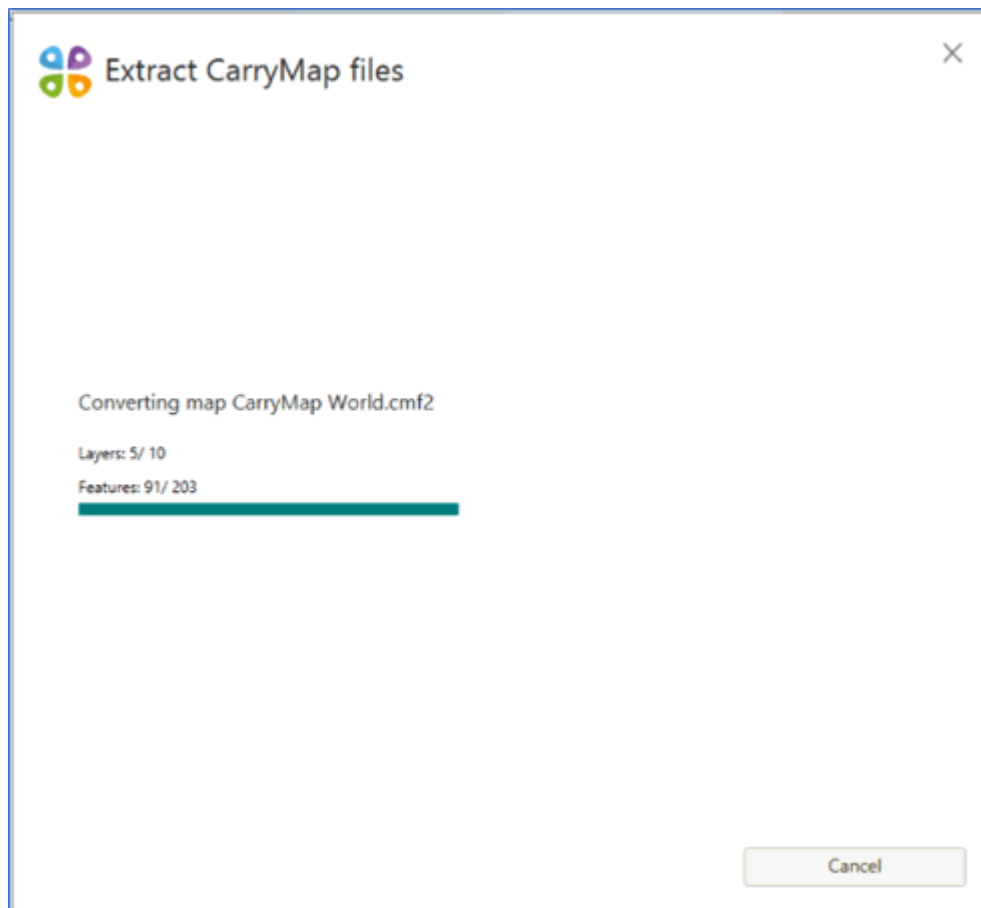
12 layers, 5 group layers

Start extraction

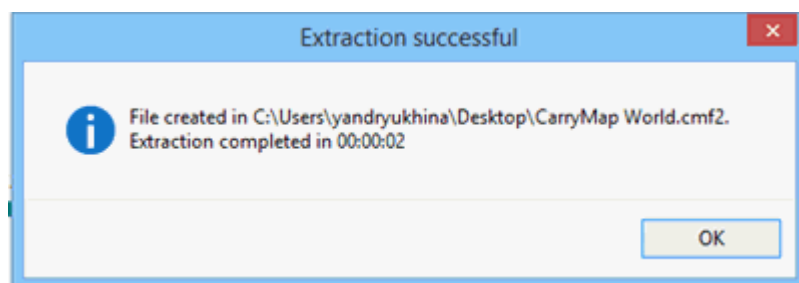
After that press **Start extraction**.



The process of extraction of project to mobile map in CMF2 format will start. To cancel process, press **Cancel**.



Upon extraction completion, the following dialog will appear.



Besides, you will see the summary report about created mobile map showing the output file size, feature classes and number of features, coordinate system, etc.



Extraction successful



File name: CarryMap World.cmf2

Total size: 768.92 KB

Total number of features: 81

Map coordinate system: GCS_WGS_1984

Map info:

Map name: CarryMap World

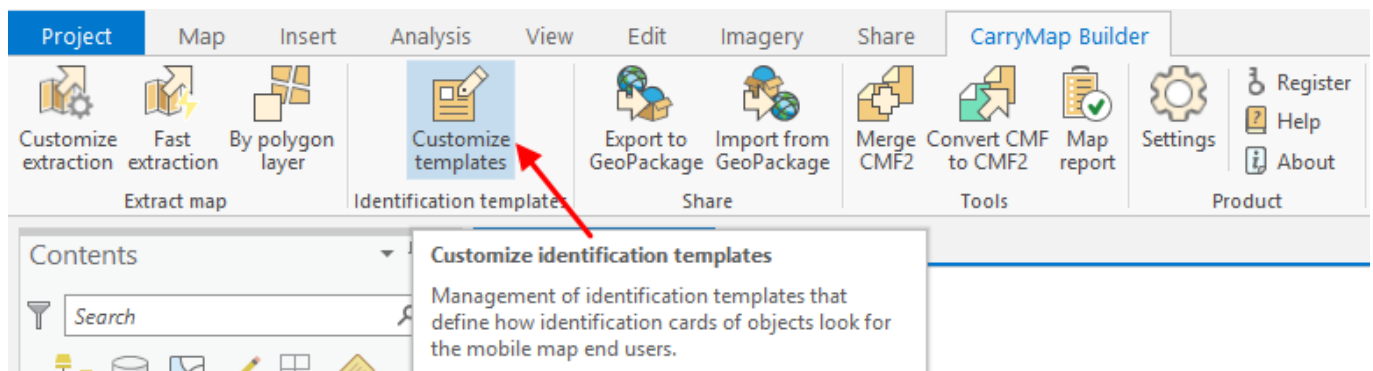
Contents	Size	Number of features
Feature classes		
ne_10m_populated_places_1	3.49 KB	3
ne_10m_populated_places_3	2.81 KB	1
ne_10m_populated_places_4	6.23 KB	14
ne_10m_rivers_lake_centerlines	4.65 KB	4
ne_10m_lakes	17.32 KB	44
ne_10m_rivers_lake_centerlines_scale_rank	5.09 KB	12
ne_10m_admin_0_map_subunits_32	80.42 KB	3
Template data	514.35 KB	
System tables	118.74 KB	

OK

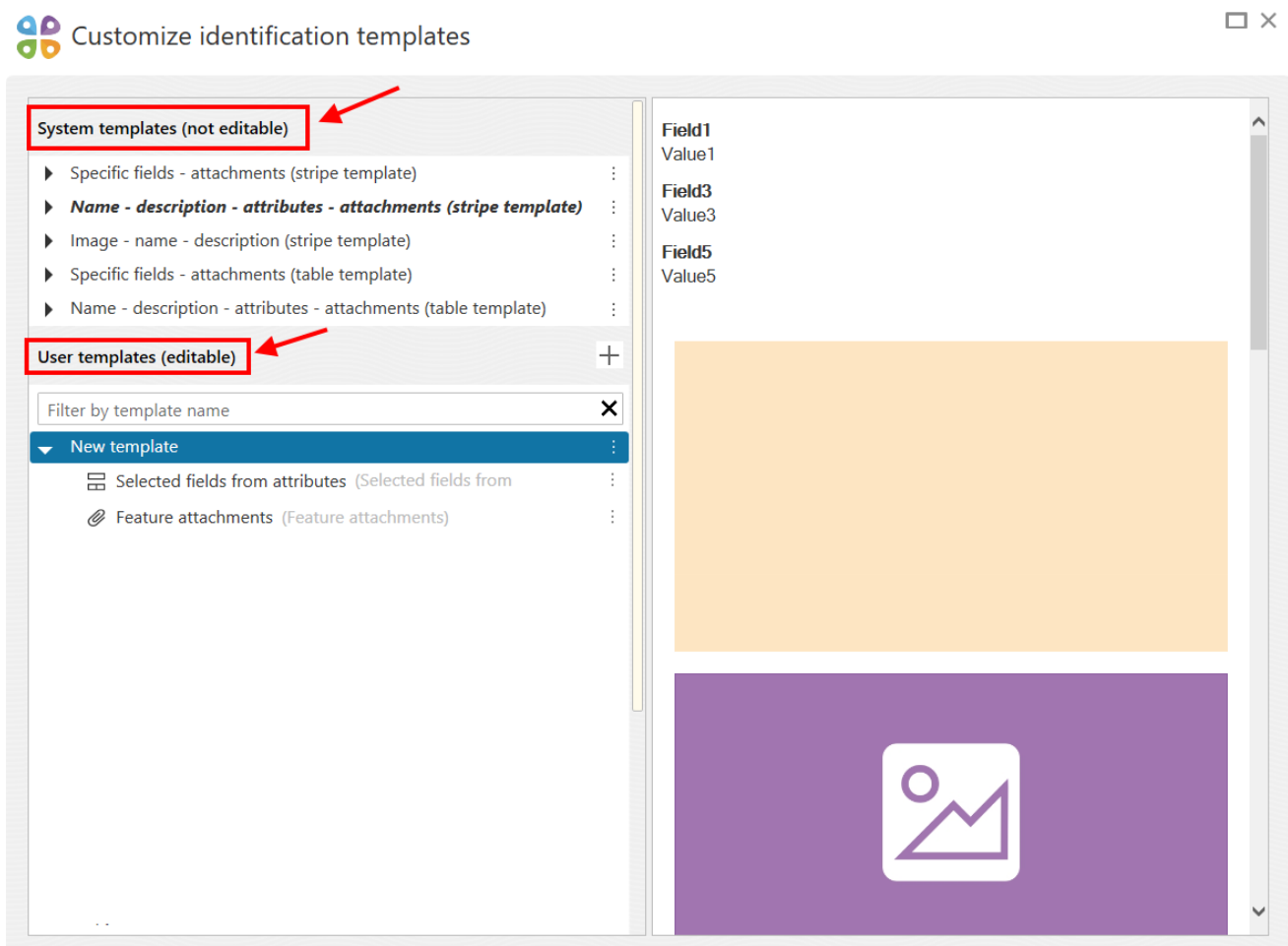
General information about identification templates

Information displayed in the identification card can be organized differently depending on used identification templates. You can select either predefined system templates or create your own user templates.

To define settings of identification cards for your future mobile map, press **Customize templates** button on the **CarryMap Builder** tab.



The list of available templates is shown in the left part of the tool dialog.

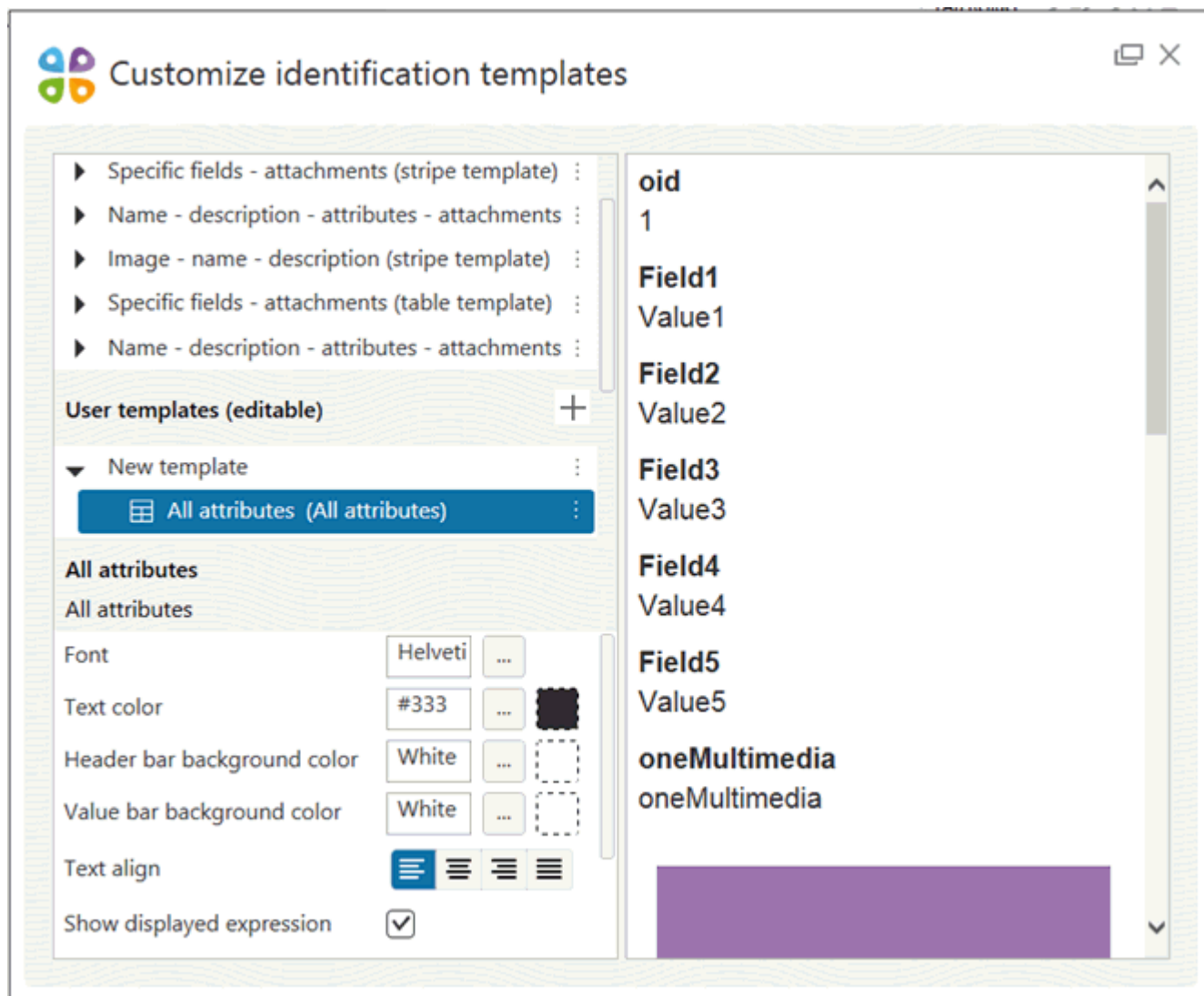


With **Customize identification templates** tool you will be able to create, filter and delete templates, as well as specify their view. Depending on your ArcGIS Pro project, you can specify additional settings for already created template. To do so, press **Customize map extraction** and go to **Template settings** section.



Both system and user identification templates are windows divided to separate information blocks as stripes. Type of displayed data, as well as display order in stripes are strictly defined. You can add the following stripes to the user template that you created:

- **All attributes** – this type of stripe is used to display the full attribute table of the feature with all fields (excluding hidden fields). You can specify text (font and size) and background (color) parameters, and select the information display view (table or stripe), and show/hide empty attribute table fields.



Note that in the settings window for the table template it is possible to select different display styles for header and value. To do so, in the Template settings window set the required settings in the appropriate sections.

Template settings

Selected fields from attributes

Show data by fields: LOCA_ABB × LAYER × Outage_Priorities × Meter_Type ×

Header Settings

Header Font: Microsoft Sans Serif, sans-serif 12pt

Header Text Color: #333

Header bar background color: White

Header Bold: ☒

Value Settings

Font: Microsoft Sans Serif, sans-serif 12pt

Text color: #333

Value bar background color: White

Bold: ☐

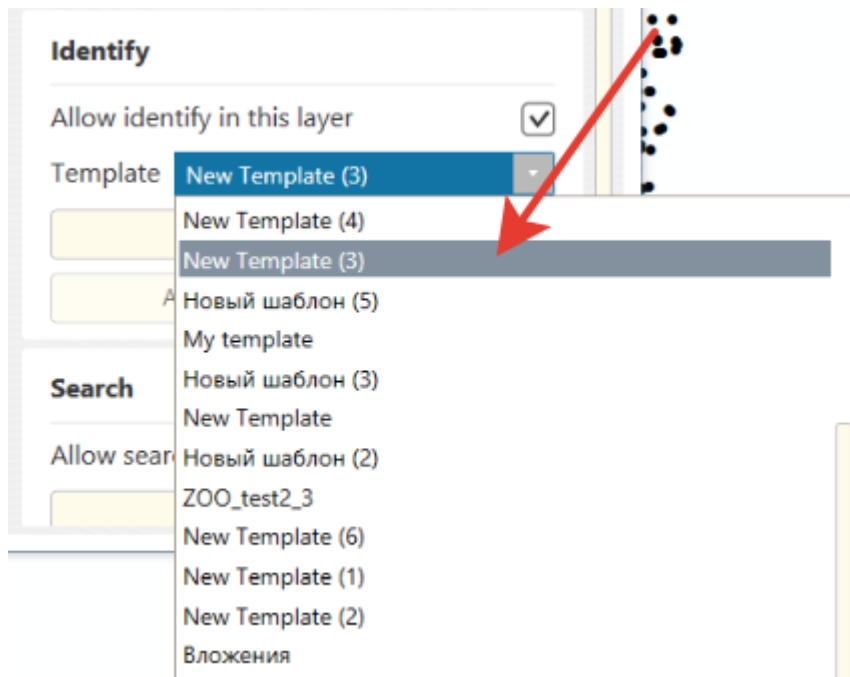
Common Settings

Text align: [Left] [Center] [Right] [Justify]

OK Cancel

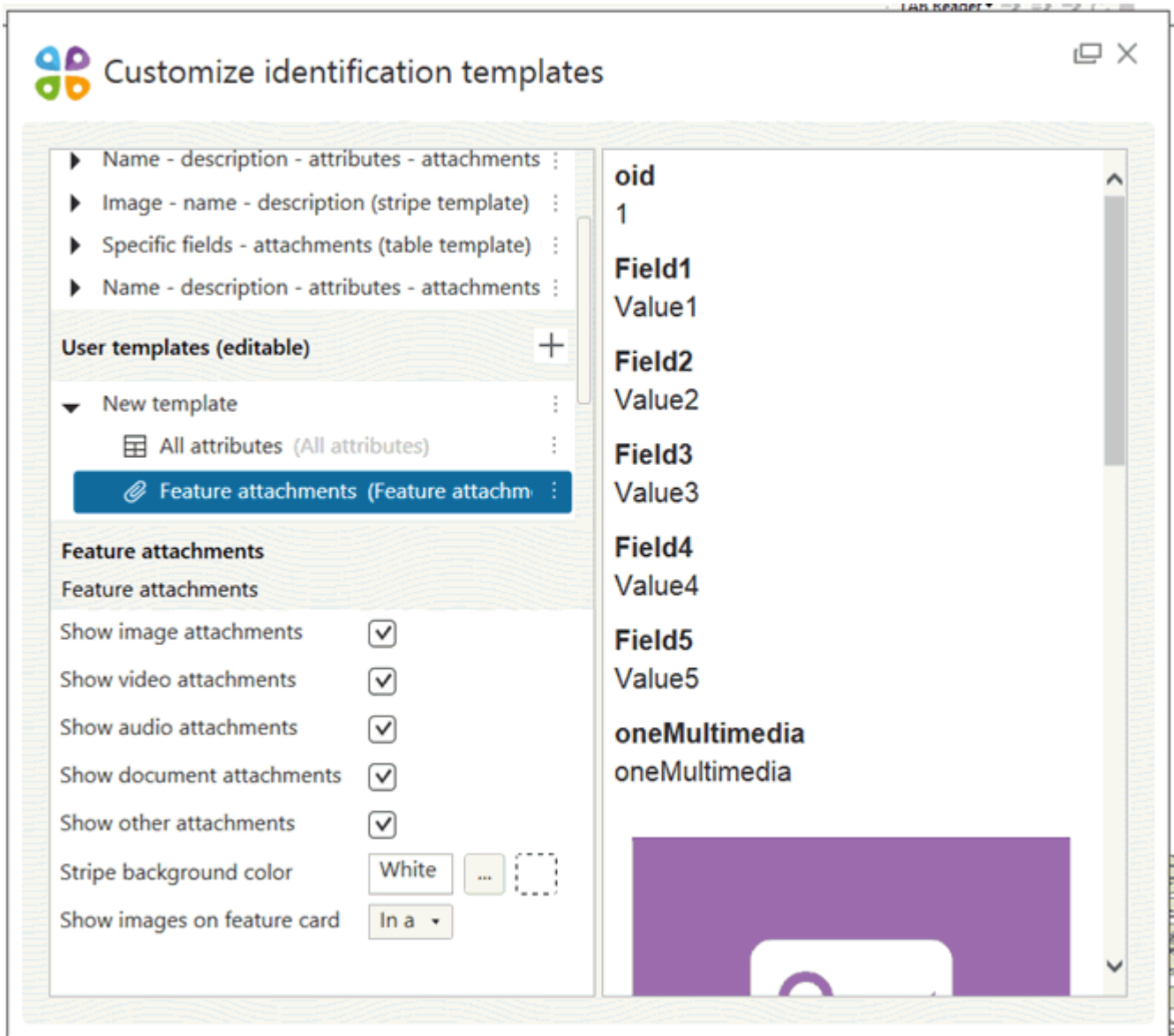
- **Attachments by specific fields with link** – this stripe is provided to display all the attachments to objects (images, videos, audios, documents etc.). To select which type of attachment should be displayed, check the boxes near the needed items. Note that this template can be used even if you have ArcGIS Basic license, which does not support creation of tables with attachments. To set display of attachments by links from the fields, go to Map section of Customize map extraction window.

In Identify section select the template where to the correspondent stripe has been added.



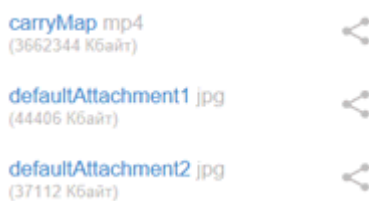
In the appeared window select fields, by which values it is needed to display attachments in the identification card.

- **Feature attachments** – this type of stripe is used to display all attachments to features (photo, video, audio, documents, etc.). You can specify which types of attachments should be displayed, to do so check the box near the required items.



The display type of attachments in the identification card can be specified as following:

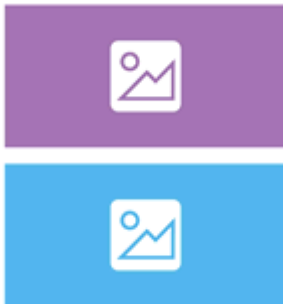
- *As a list*– all attachments will be shown in the list.



- *In a preview mode* – photos will be shown as clickable thumbnails and the other attachments will be shown in the list.



- *In full size* – photos will be shown in full size, video and audio as media players and all other attachments arranged in the list.



- **HTML code** – this type of stripe is used to display attribute tables same as it has been specified using HTML script.

By default by adding the HTML code stripe, the following HTML script will be used:

```
<div>
<table border="1px" width="100%">
<caption><b style="color: green">Caption</b></caption>
<tr>
<td width="50%">Field1</td>
<td width="50%">[Field1]</td>
</tr>
</table>
</div>
```

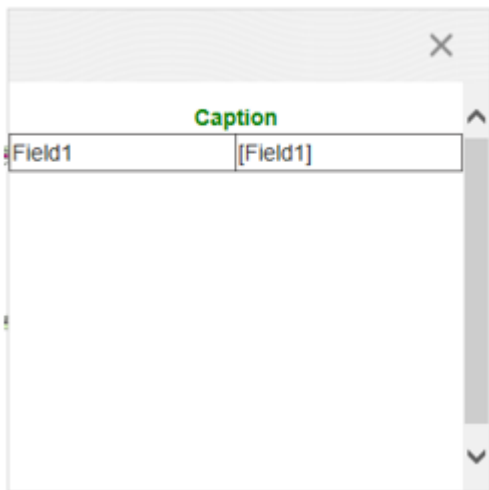
Where variable parameters are:

Green – text caption color;

Caption – caption name;

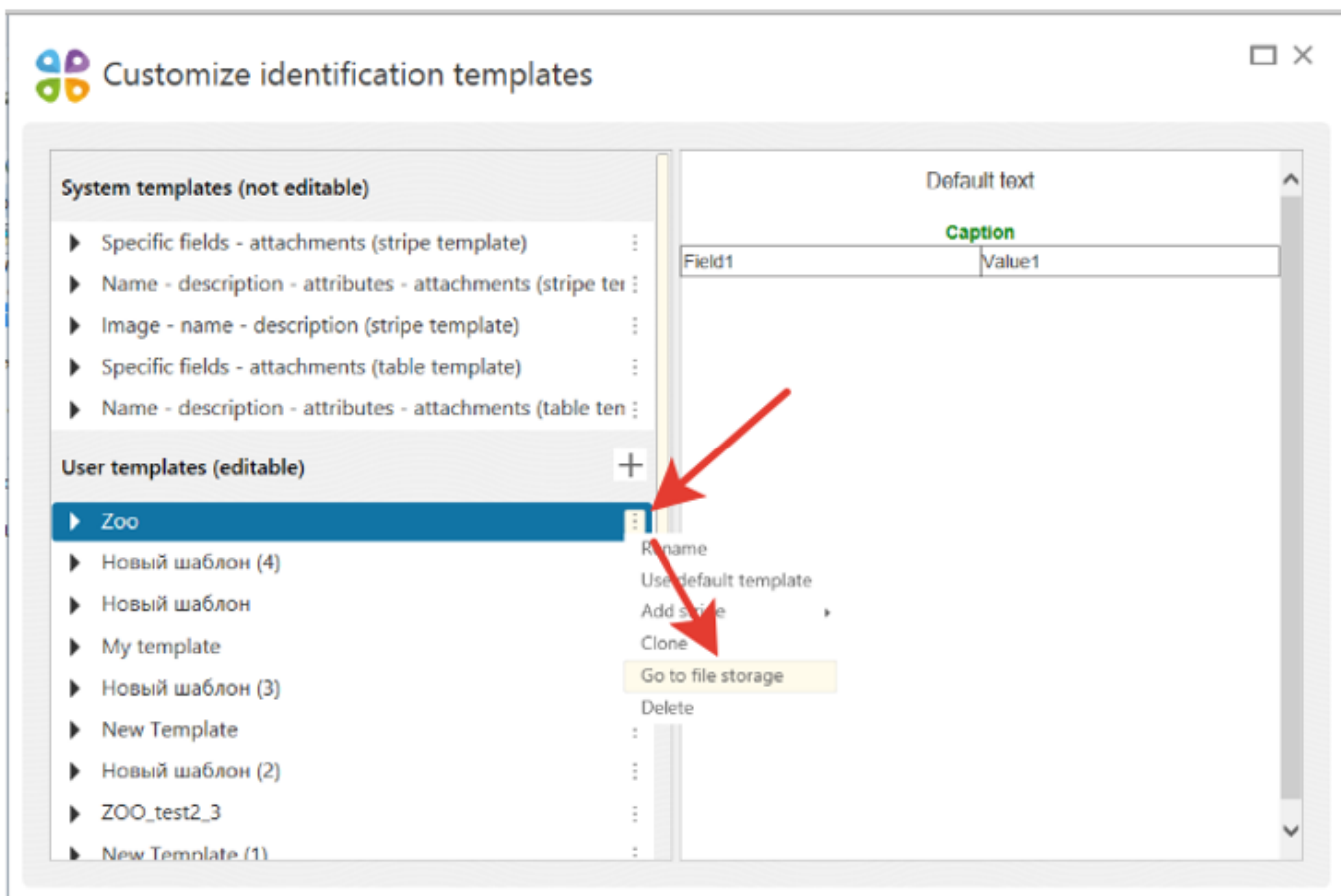
Field1 – name of field from attribute table, that needs to be shown in the identification card.

The example of displaying information using the default HTML script is shown below.



In order to show picture in the identification card using HTML script:

1. Go to the templates files folder, selecting Go to file storage in the template options.



2. Copy images you want to show in the card, to this folder.
3. In the settings of HTML code settings add this script:

```

```

Where variable parameter is:

1.png – picture name and format.

In order to show selected fields from attribute table in the identification card using HTML script, add the following script in the HTML code stripe settings:

<div>**[Field1]**</div>

Where variable parameter is:

Field1 – name of field from attribute table.

If you need to align your text field left using HTML script, add the following script in the HTML code stripe:

<div align="left">**[Field1]**</div>

Where variable parameter is:

Field1 – name of field from attribute table that needs to be aligned left.

If you need to align your text field right using HTML script, add the following script in the HTML code stripe:

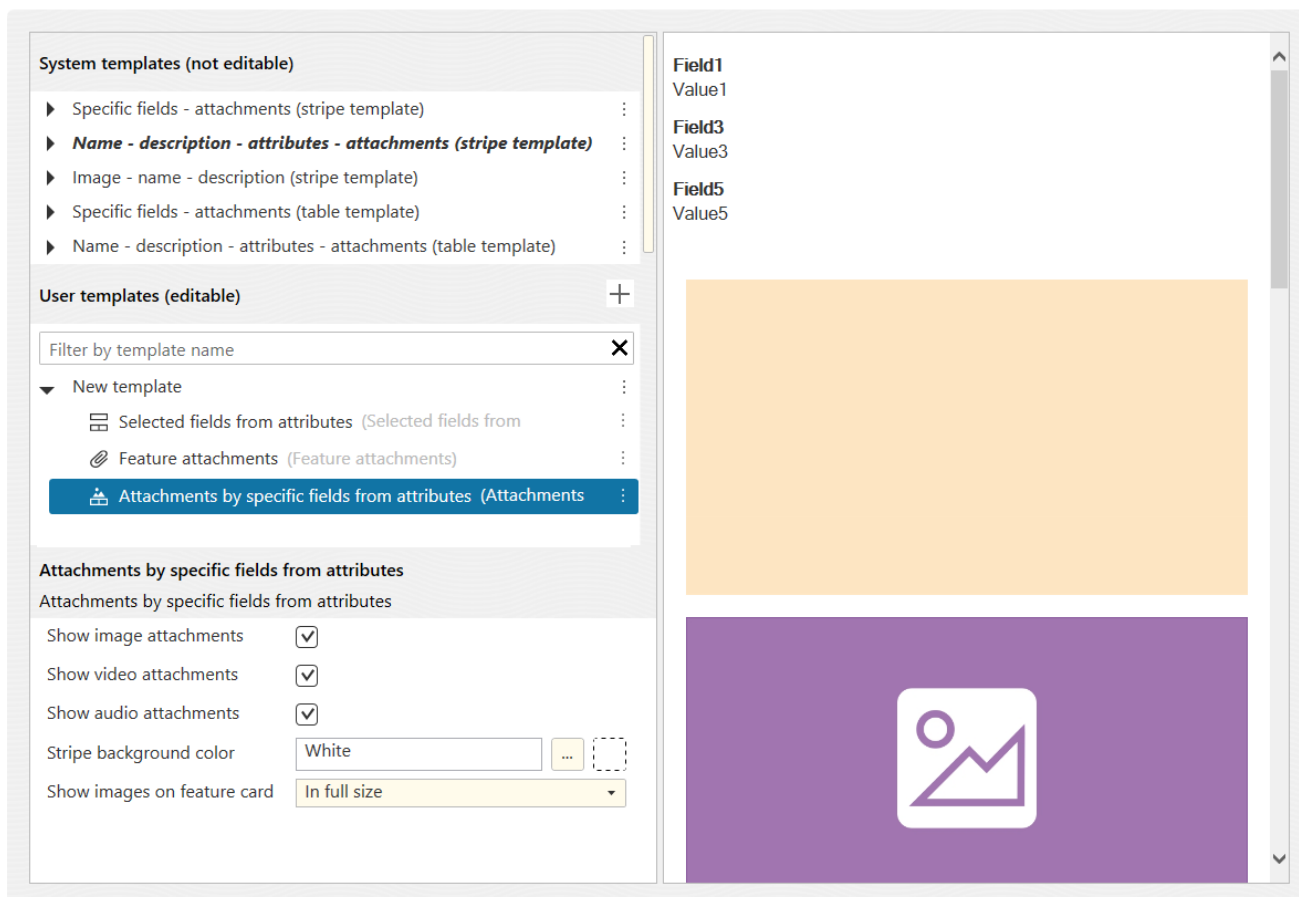
<div align="right">**[Field1]**</div>

Where variable parameter is:

Field1 – name of field from attribute table that needs to be aligned right.

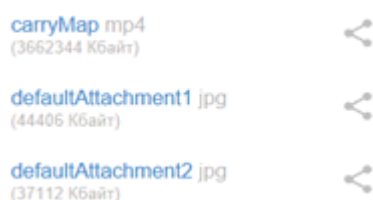
- **Attachments by specific fields from attributes** – this type of stripe is used to display multimedia files selected based on the fields values that is selected with **Customize map extraction** tool.

You can specify which types of attachments should be displayed, to do so check the box near the required items.



The display type of attachments in the identification card can be specified as following:

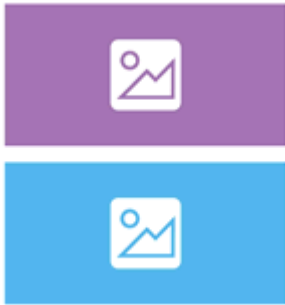
- As a *list* – all attachments will be shown in the list.



- In a *preview mode* – photos will be shown as clickable thumbnails and the other attachments will be shown in the list.

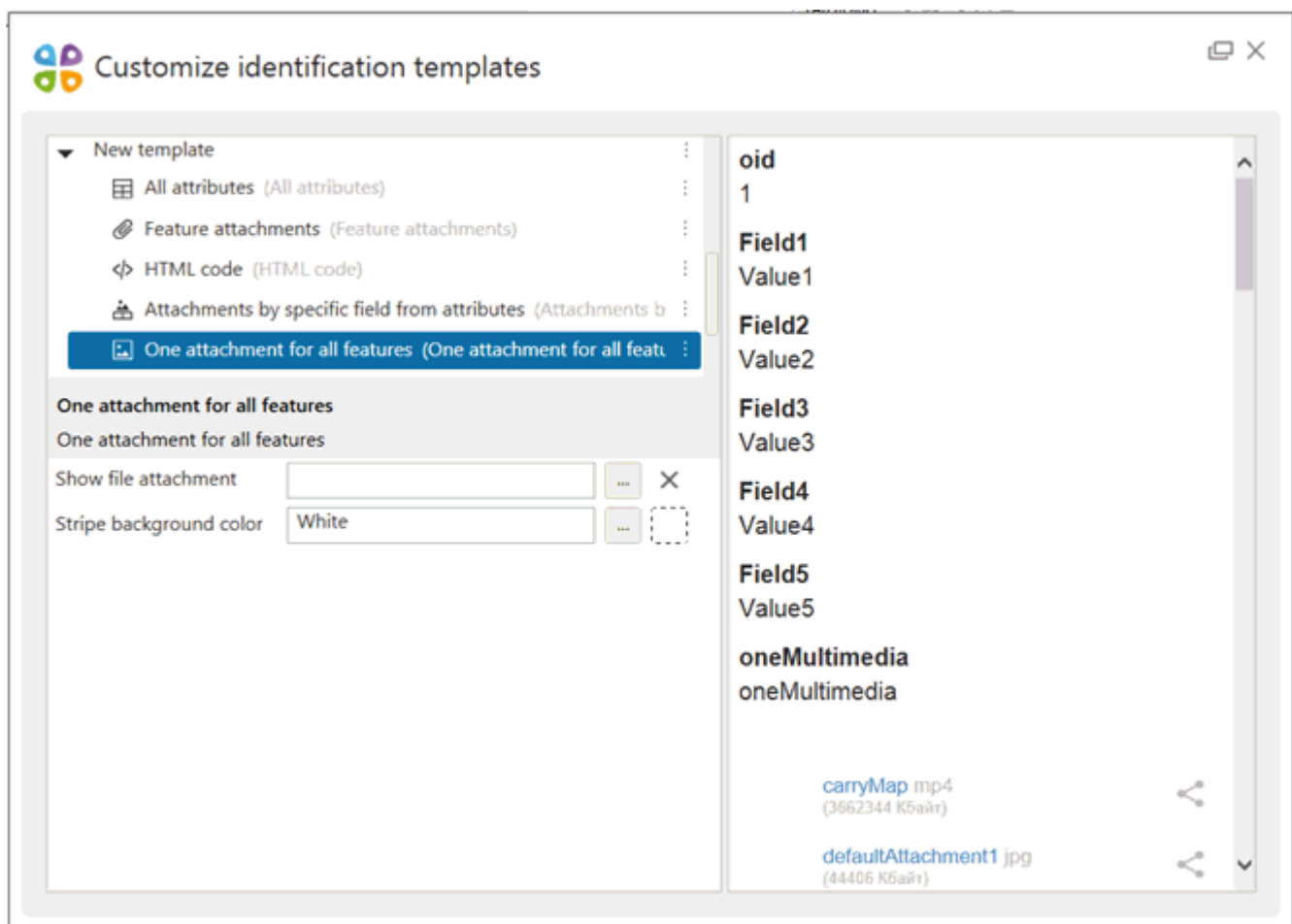


- In *full size* – photos will be shown in full size, video and audio as media players.

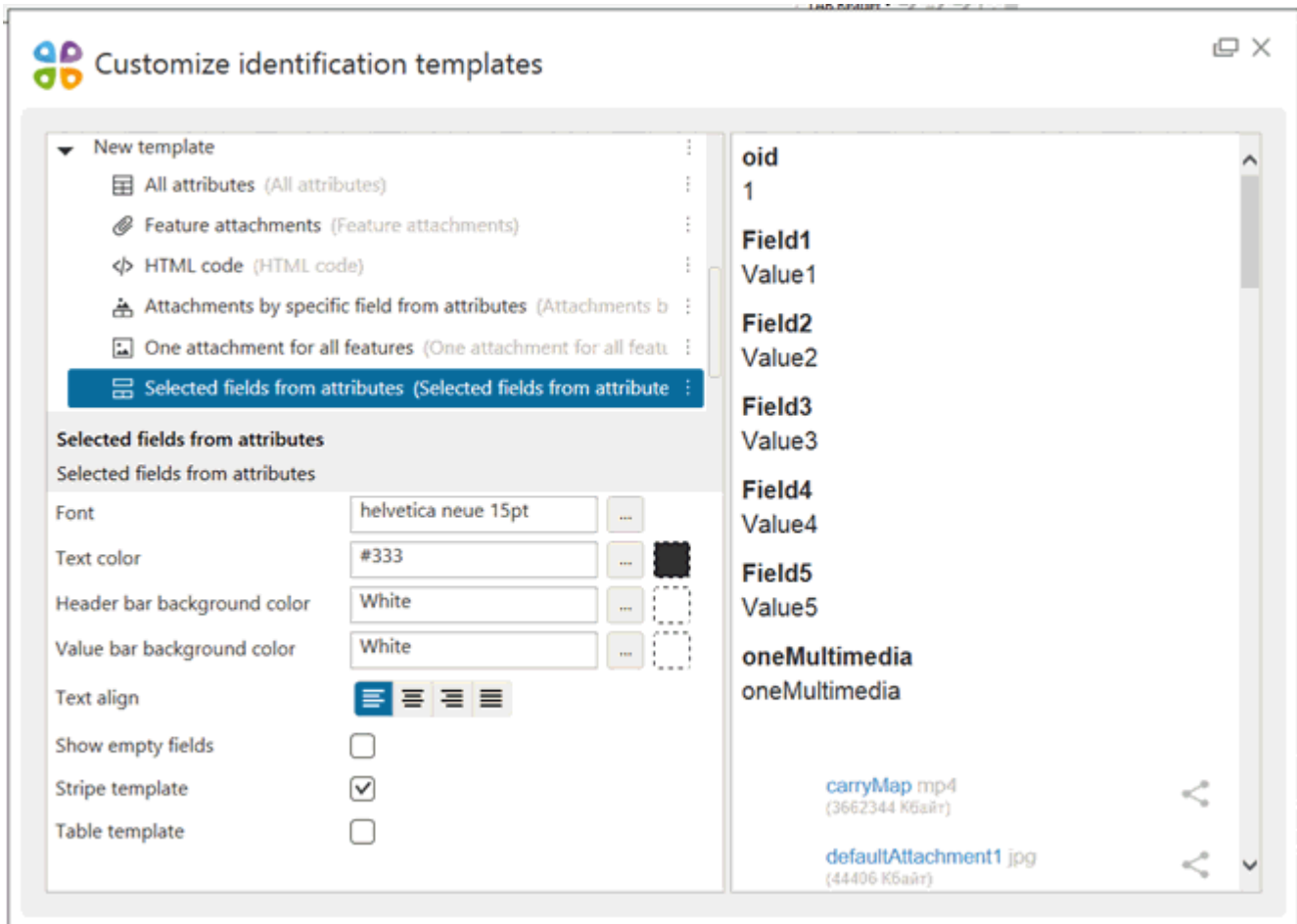


Note that the CarryMap Builder supports also raster fields to display image attachments in identification cards.

- **One attachment for all features** – this type of stripe is used to display multimedia file that needs to be displayed in identification dialogs for all features of the layer, for example, your company logo. The background color for this stripe can be selected.



- **Selected fields from attributes** – this type of stripe is used to display part of the attribute table, i.e. those attributes only that should be visible to the user. Settings for text display and background color for this stripe can be specified in **Customize identification templates** menu. Fields that need to be displayed are selected in **Map** tab of **Customize map extraction** dialog.



- **Text** – this type of stripe is used to display text description of feature, that can be typed manually or added using appropriate attribute text field. Settings for text display and background color for this stripe can be specified in **Customize identification templates** menu. If you want to display the field value here, this field should be selected in **Map** tab of **Customize map extraction** dialog.



Customize identification templates



▼ New template

- All attributes (All attributes) ...
- Feature attachments (Feature attachments) ...
- HTML code (HTML code) ...
- Attachments by specific field from attributes (Attachm ...
- One attachment for all features (One attachment for a ...
- Selected fields from attributes (Selected fields from ati ...

T Text (Text) ...

Text

Text

Show text from fields (or enter text)

Default text

Font

Helvetica neue

Text color

#333

Stripe background color

White

Text align



oid

1

Field1

Value1

Field2

Value2

Field3

Value3

Field4

Value4

Field5

Value5

oneMultimedia

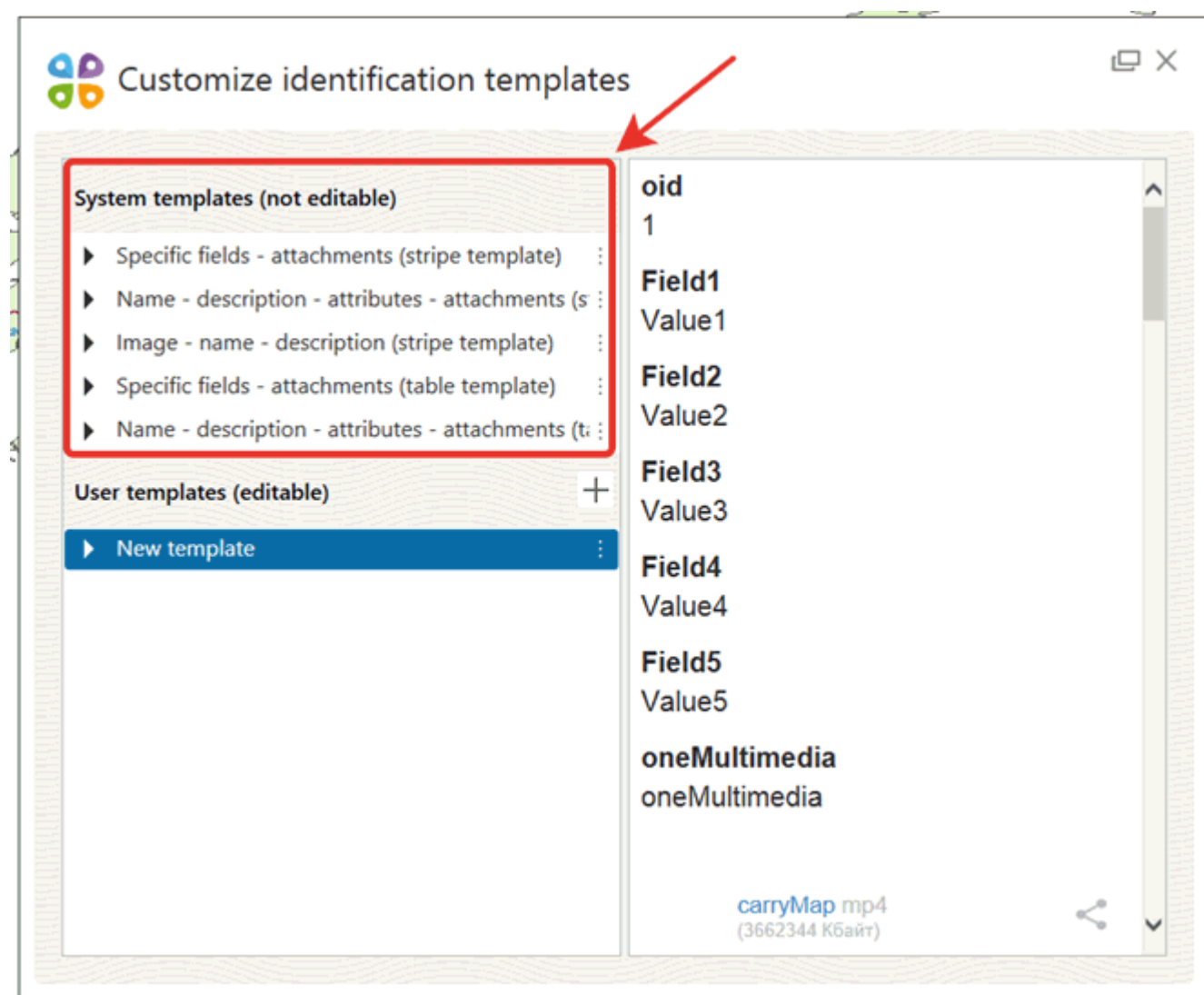
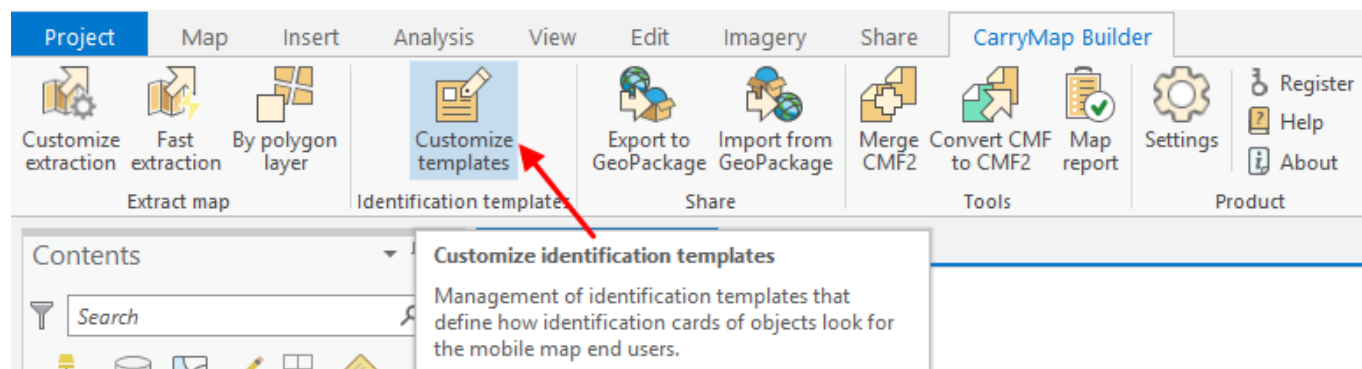
oneMultimedia

carryMap mp4
(3662344 Кбайт)



About system identification templates

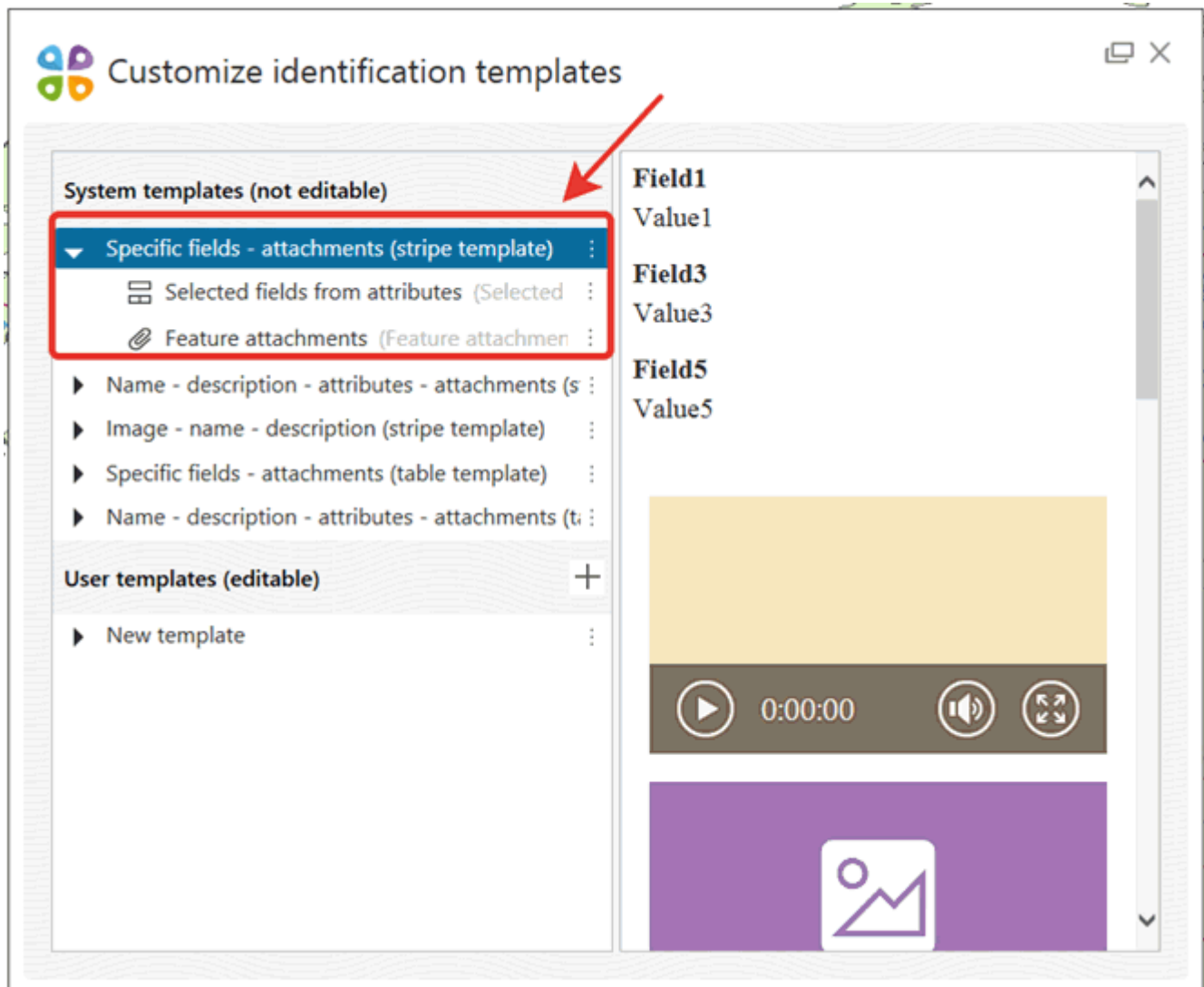
For work with system identification templates run **Customize identification templates** tool on CarryMap Builder tab.



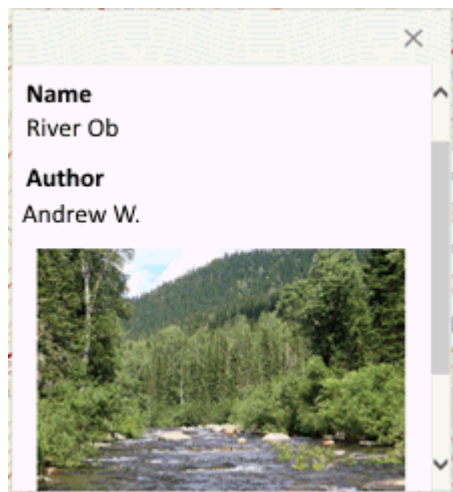
System identification template is a window divided to separate information blocks as stripes. Type of displayed data, as well as information display order in stripes are strictly defined.

Using system template Specific fields – attachments (stripe or table)

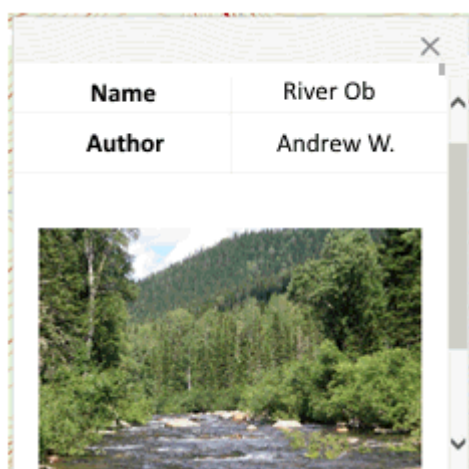
System template **Specific fields – attachments (stripe template)** consists of Selected fields from attributes and Feature attachments stripes.



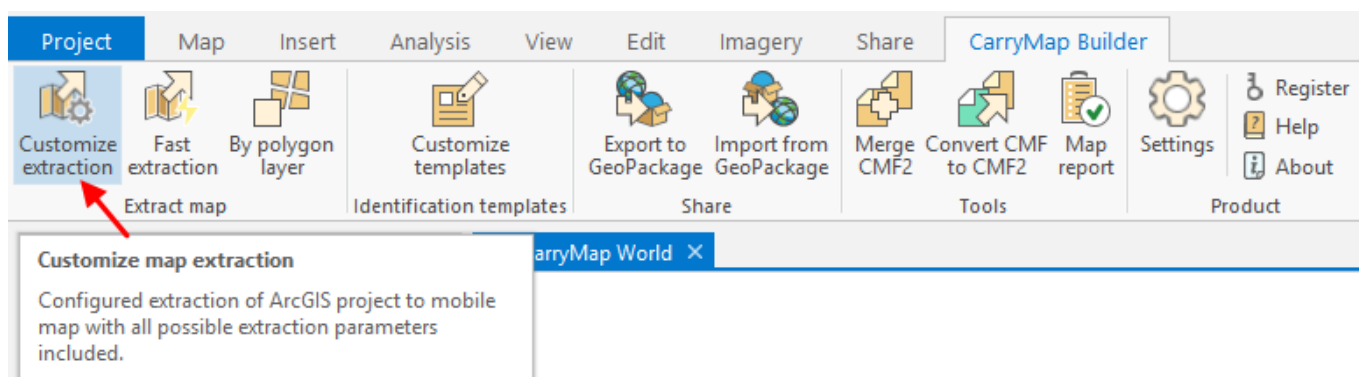
Information in the identification card created using this template is arranged as stripes.



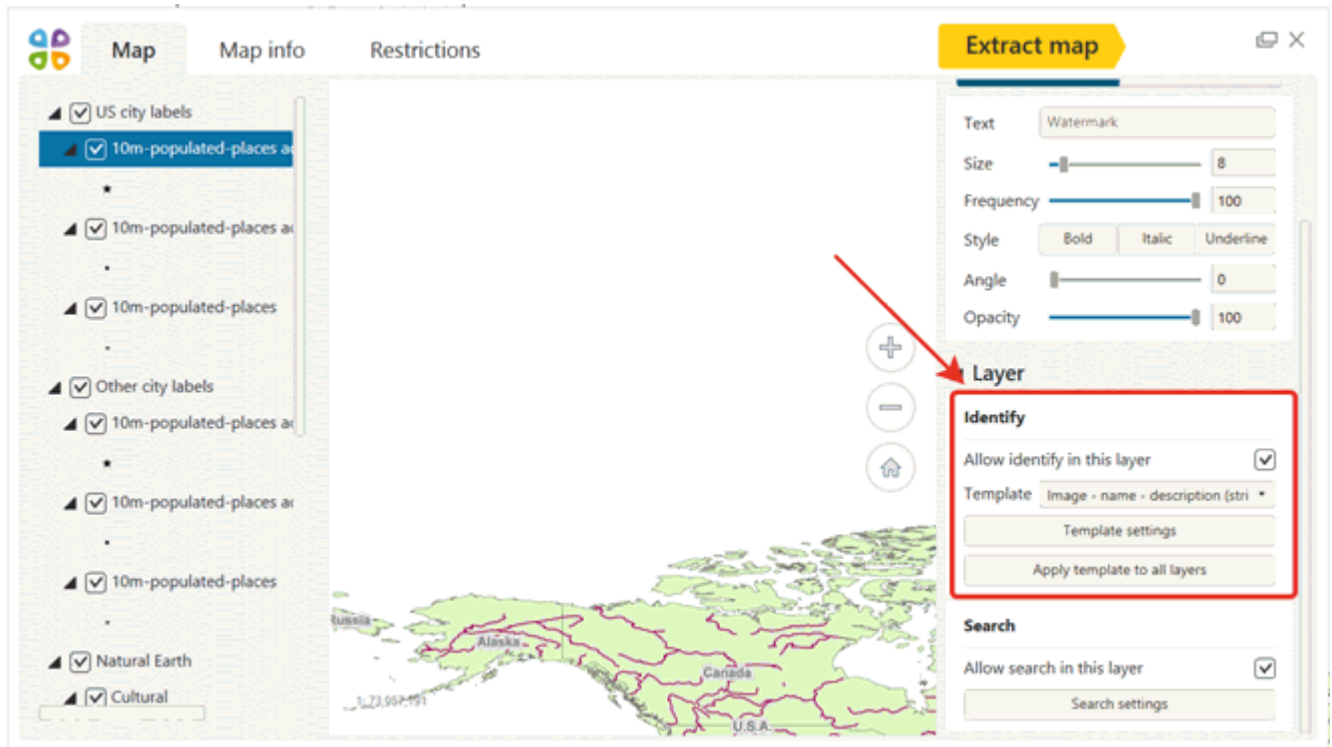
To use the same template type but with information arranged as a table, select **Specific fields – attachments (table template)**, respectively.



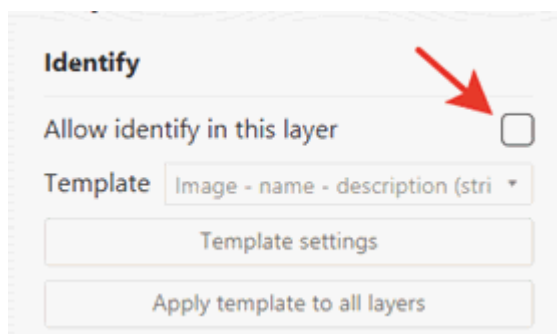
To use system template **Specific fields – attachments (stripe template)** or **Specific fields – attachments (table template)**, press **Customize extraction**.



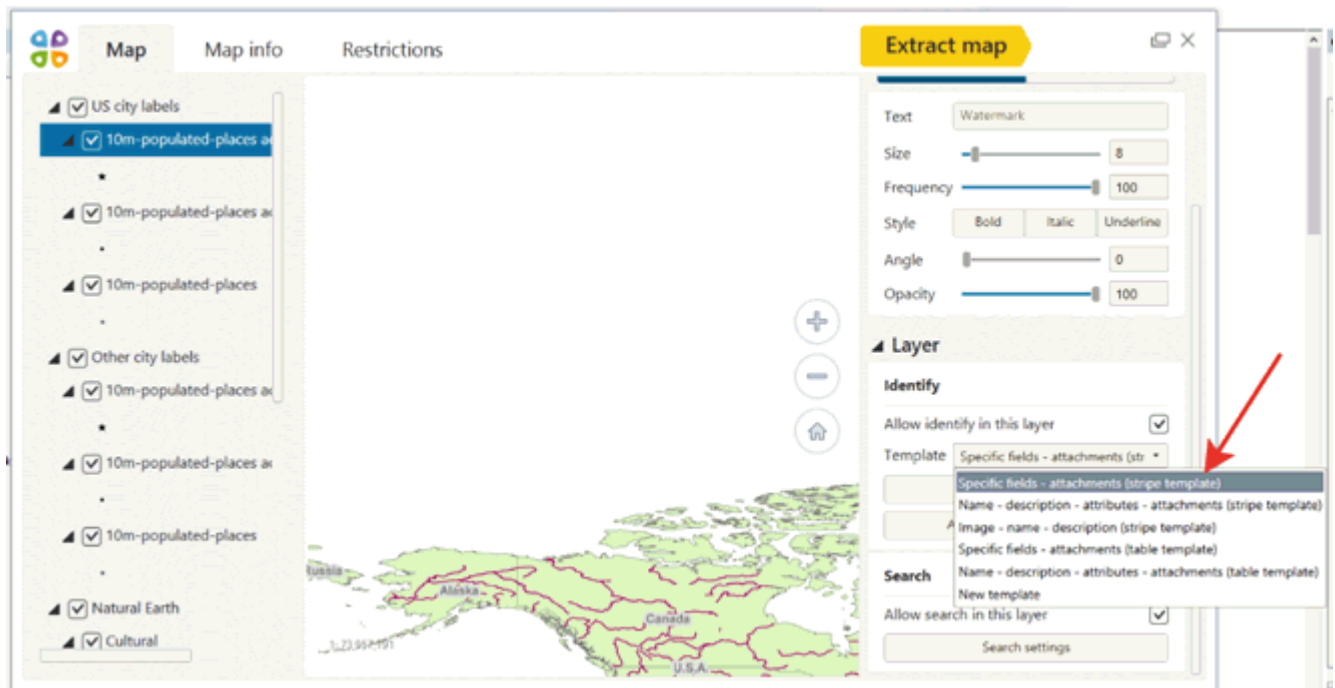
In CarryMap Builder layers list select the required layer and go to **Identify** section.



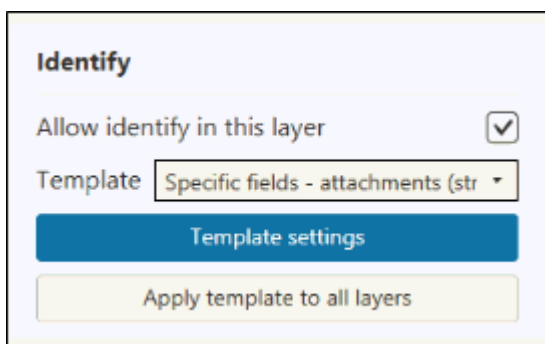
Check **Allow identify in this layer** option.



In **Template** section select **Specific fields – attachments (stripe template)** or **Specific fields – attachments (table template)** from the list.




To specify additional template settings, press **Template settings**.



In the appeared dialog *make sure* for stripes **Selected fields from attributes** and **Feature attachments** to select fields which attributes will be shown by features identification. Select the text settings if necessary: font, color and alignment.

For stripe **Feature attachments** select which attachments should be displayed in the identification cards, selecting required types of attachments.



Template settings

✕

Selected fields from attributes

Show data by fields

▶

Font


helvetica neue 15pt

...

Text color

#333


...



Header bar background color

White


...




Value bar background color

White

...



Text align



Show empty fields

☐

Stripe template

☒

Table template

☐

Feature attachments

Show image attachments

☒

Show video attachments

☒

Show audio attachments

☒

Show document attachments

☒


Show other attachments

☒

Stripe background color

White

...



Show images on feature card

In full size

▼

OK

Cancel

Confirm all made changes pressing **OK**.

Template settings

Selected fields from attributes

Show data by fields:

Font:

Text color:

Header bar background color:

Value bar background color:

Text align: ☒ ☐ ☐ ☐

Show empty fields: ☐

Stripe template: ☒

Table template: ☐

Feature attachments

Show image attachments: ☒

Show video attachments: ☒

Show audio attachments: ☒

Show document attachments: ☒

Show other attachments: ☒

Stripe background color:

Show images on feature card:

OK Cancel

To apply selected template to all layers of your ArcGIS Pro project, press **Apply template to all layers**.

Identify

Allow identify in this layer: ☒

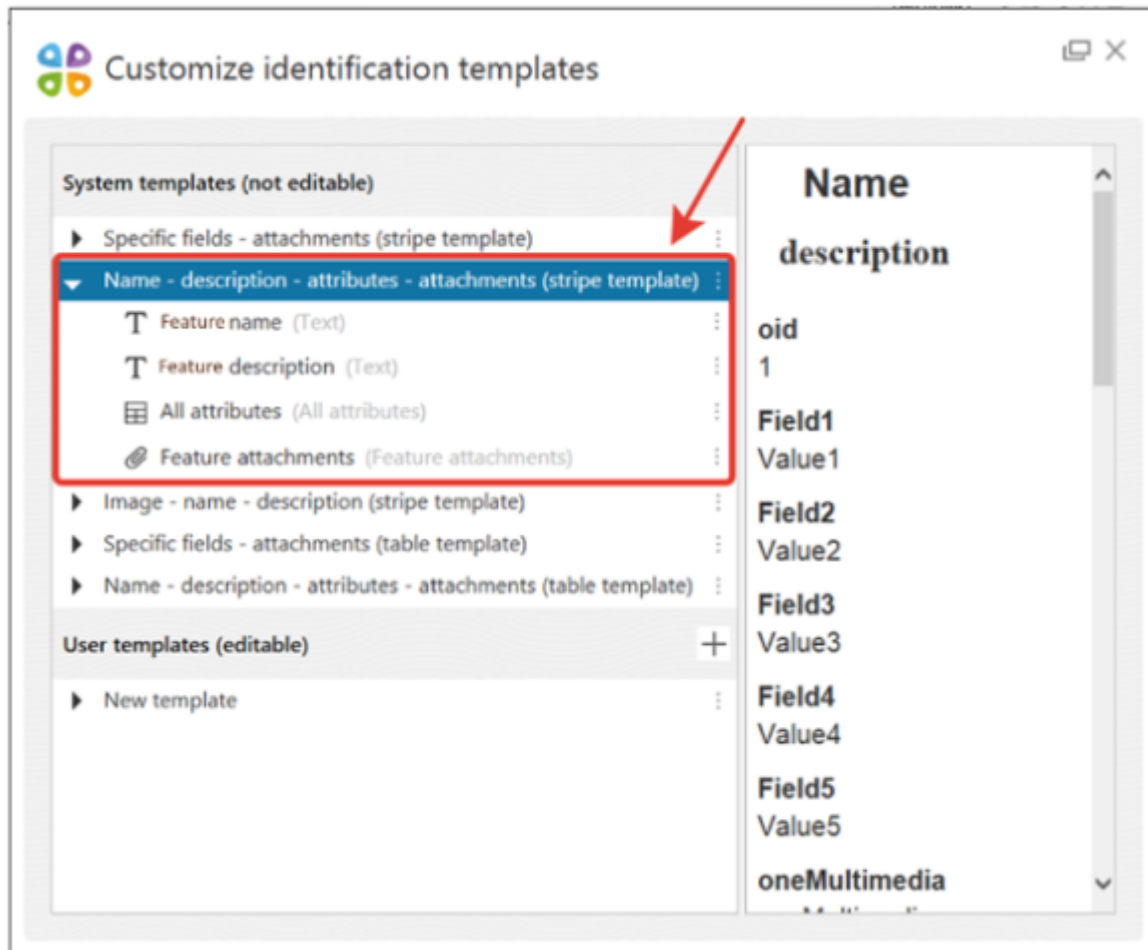
Template:

Template settings

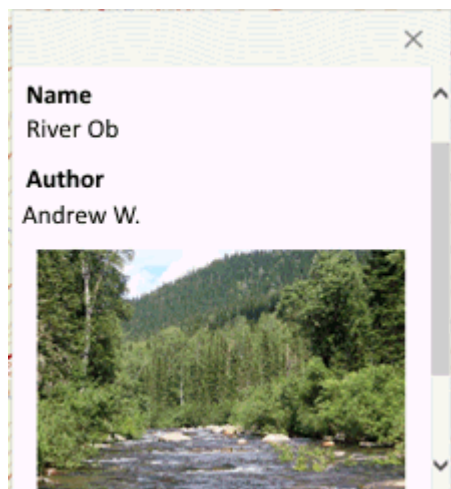
Apply template to all layers

Using system template Name-description-attributes-attachments (stripe or table)

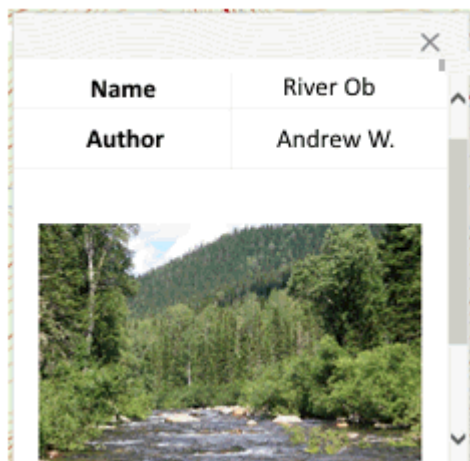
System template **Name-description-attributes-attachments (stripe)** consists of stripes Feature name (text), Description (text), and All attributes, feature attachments.



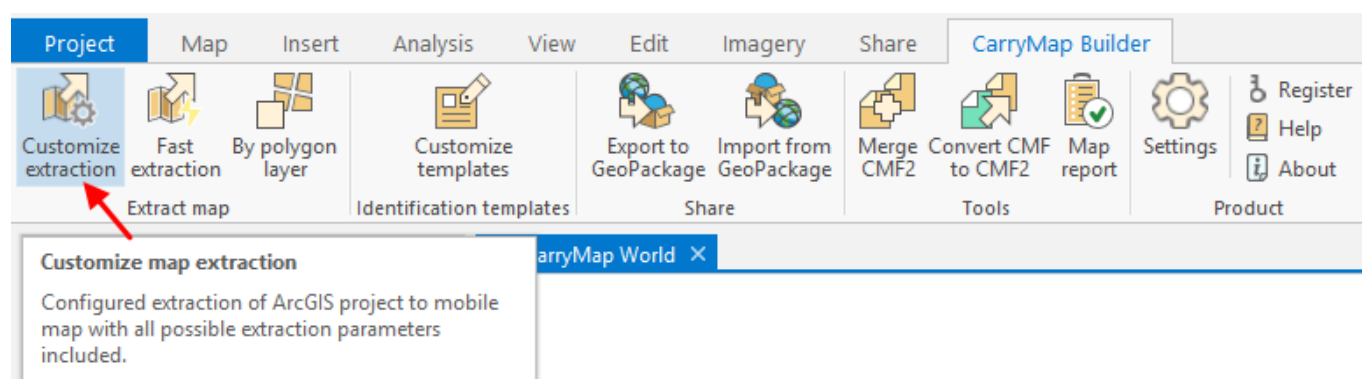
Information in the identification card created using this template is arranged as stripes.



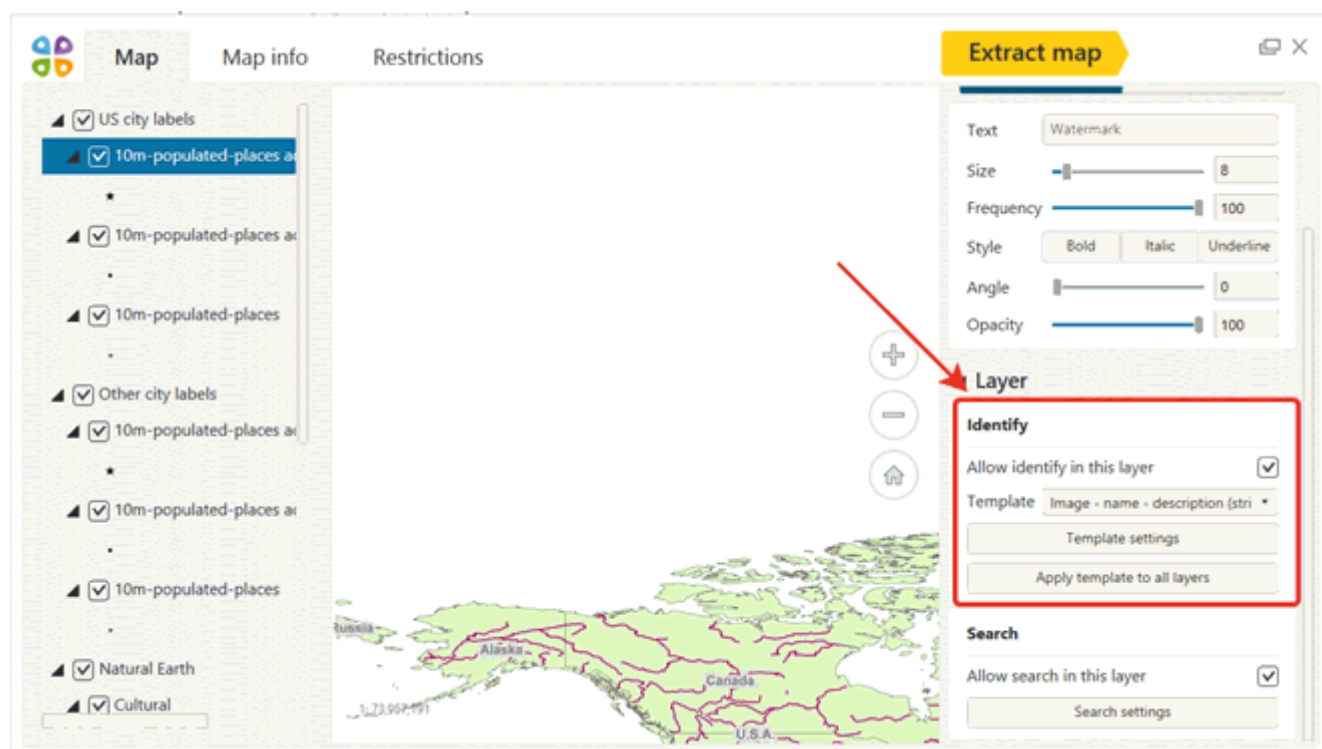
To use the same template type but with information arranged as a table, select **Name-description-attributes-attachments (table)**, respectively.



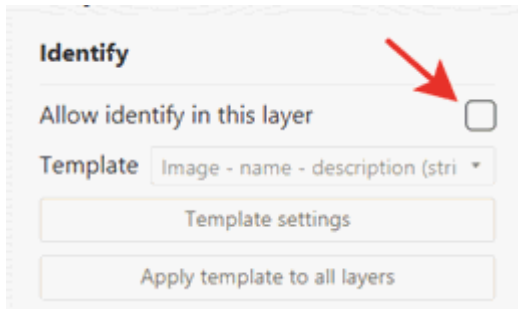
To use system template **Name-description-attributes-attachments (stripe)** or **Name-description-attributes-attachments (table)**, press **Customize extraction**.



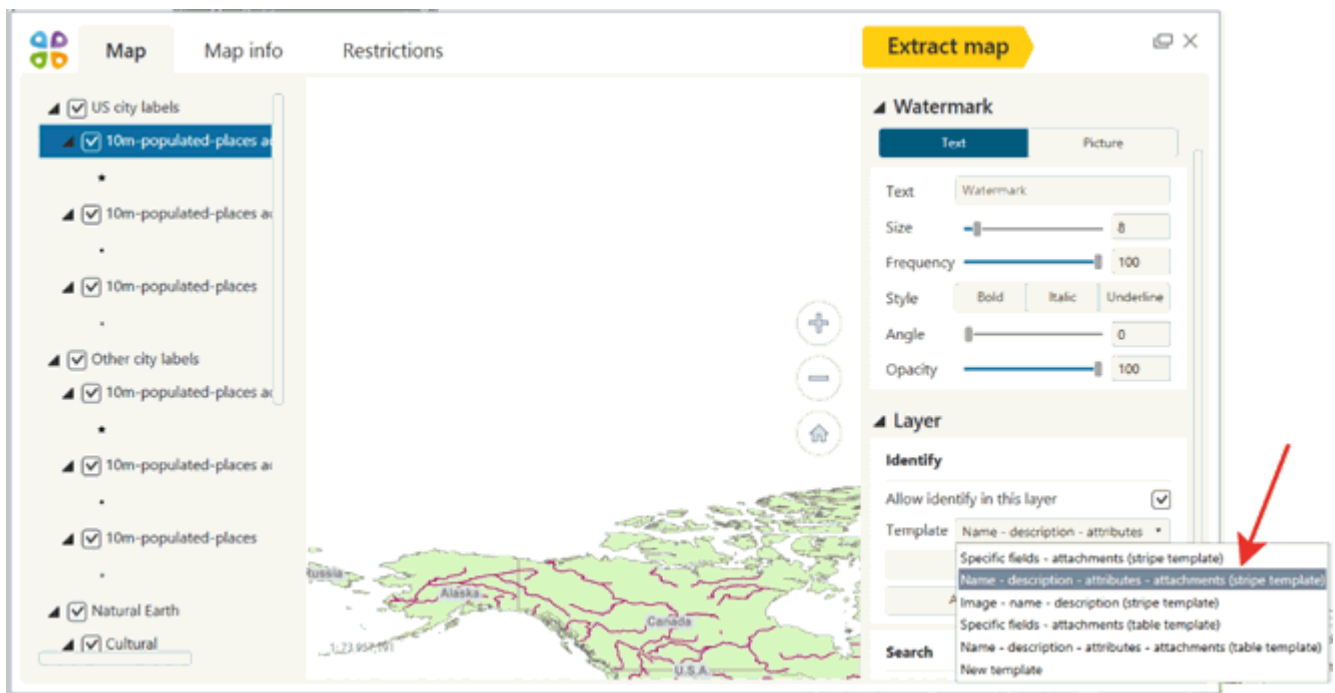
In CarryMap Builder layers list select the required layer and go to **Identify** section.



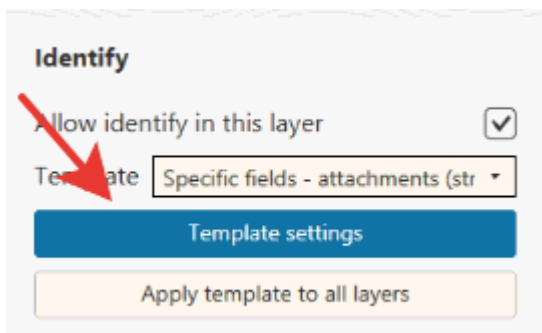
Check **Allow identify in this layer** option.



In **Template** section select **Name-description-attributes-attachments (stripe)** or **Name-description-attributes-attachments (table)** from the list.



To specify additional template settings, press **Template settings**.



For stripe **Feature name** *make sure* to select field in **Show text from field** section. That is, during feature's identification, the feature's name will be displayed based on selected field. Select the text settings if necessary: font, color and alignment.

For stripe **Feature description** *make sure* to select field in **Show text from field** section. That is, during feature's identification, the feature's description will be displayed based on selected field. Select the text settings if necessary: font, color and alignment.

Template settings

Feature name

Show text from fields (or enter text)

Font

Text color

Stripe background color

Text align ☒ Left ☐ Center ☐ Right ☐ Justify

Feature description

Show text from fields (or enter text)

Font

Text color


Stripe background color

Text align ☐ Left ☒ Center ☐ Right ☐ Justify

OK Cancel

For stripe **All attributes** you can specify the following settings: text font, color and alignment, whether you need to show displayed expression (specified in ArcMap settings), data display view (stripe or table), and specify whether you need to show empty fields or not. All these settings are optional, for this stripe you can use default settings if they work for you.








For stripe **Feature attachments** select which attachments should be displayed in the identification cards, selecting required types of attachments.




Template settings

×

All attributes

Font	<input type="text" value="Helvetica 15pt"/>	...	
Text color	<input type="text" value="#333"/>	...	
Header bar background color	<input type="text" value="White"/>	...	
Value bar background color	<input type="text" value="White"/>	...	
Text align	<div></div>		
Show displayed expression	<input checked="" type="checkbox"/>		
Show empty fields	<input type="checkbox"/>		
Stripe template	<input checked="" type="checkbox"/>		
Table template	<input type="checkbox"/>		

Feature attachments

Show image attachments	<input checked="" type="checkbox"/>		
Show video attachments	<input checked="" type="checkbox"/>		
Show audio attachments	<input checked="" type="checkbox"/>		
Show document attachments	<input checked="" type="checkbox"/>		
Show other attachments	<input checked="" type="checkbox"/>		
Stripe background color	<input type="text" value="White"/>	...	
Show images on feature card	<input type="text" value="In full size"/>		

OK

Cancel

Confirm all made changes pressing **OK**.

Template settings

All attributes

Font: Helvetica 15pt

Text color: #333

Header bar background color: White

Value bar background color: White

Text align: [Left] [Center] [Right] [Justify]

Show displayed expression: ☒

Show empty fields: ☐

Stripe template: ☒

Table template: ☐

Feature attachments

Show image attachments: ☒

Show video attachments: ☒

Show audio attachments: ☒

Show document attachments: ☒

Show other attachments: ☒

Stripe background color: White

Show images on feature card: In full size

OK Cancel

To apply selected template to all layers of your ArcGIS Pro project, press **Apply template to all layers**.

Identify

Allow identify in this layer: ☒

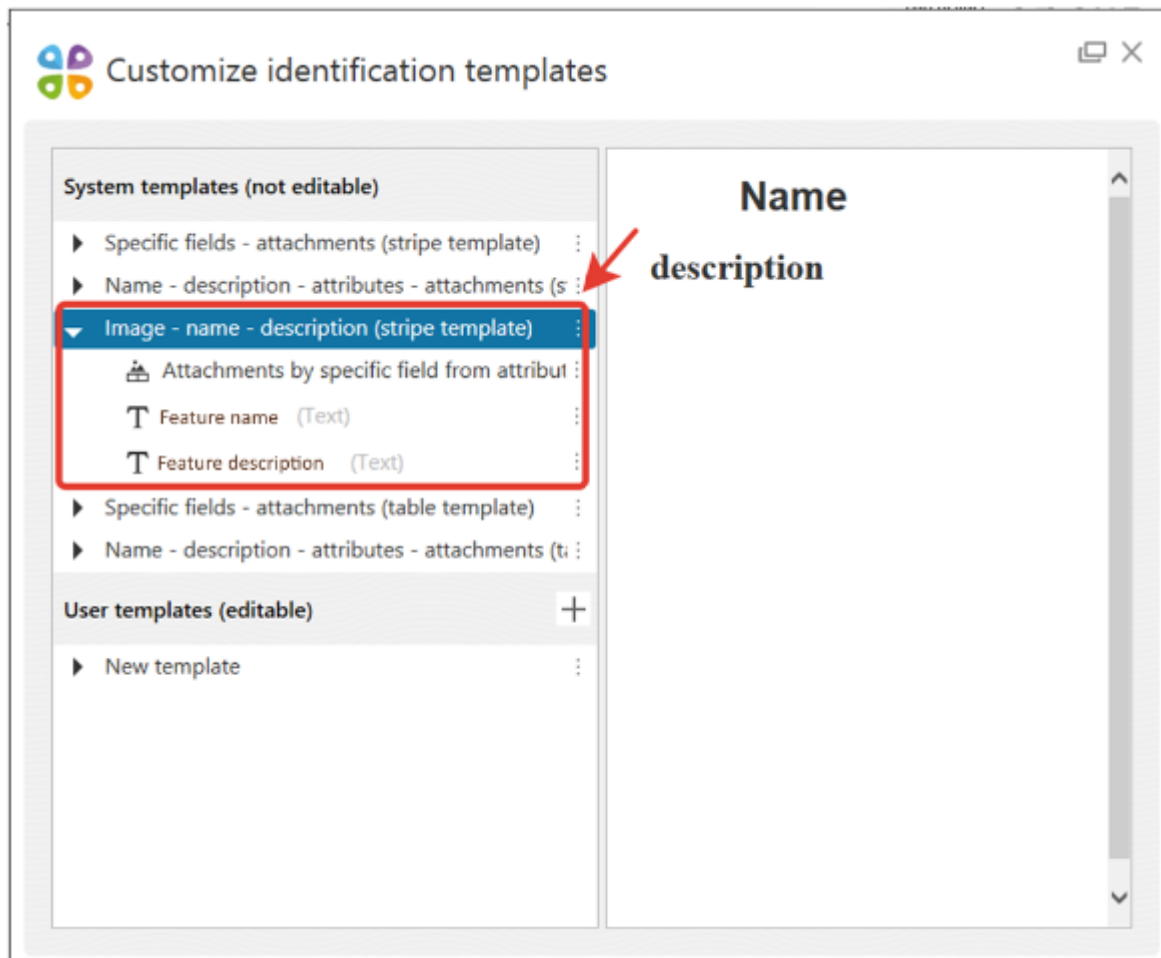
Template: Specific fields - attachments (str)

Template settings

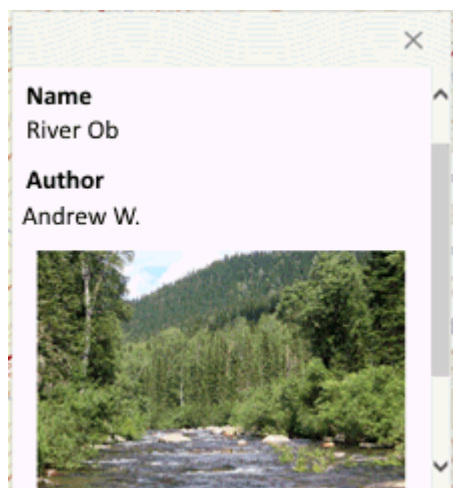
Apply template to all layers

Using system template Image-name-description (stripe)

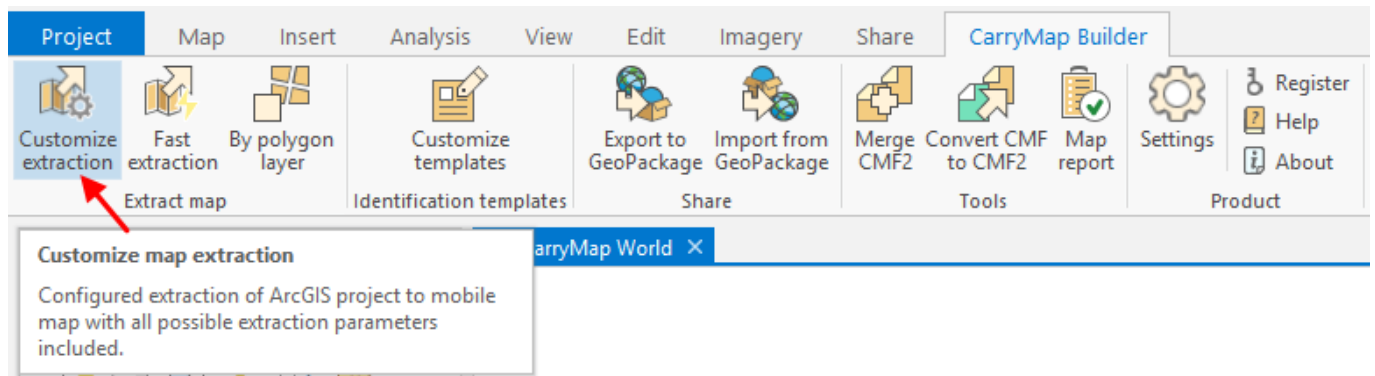
System template **Image-name-description (stripe)** consists of stripes Attachment by specific field from attributes, Feature name (text), feature description (text).



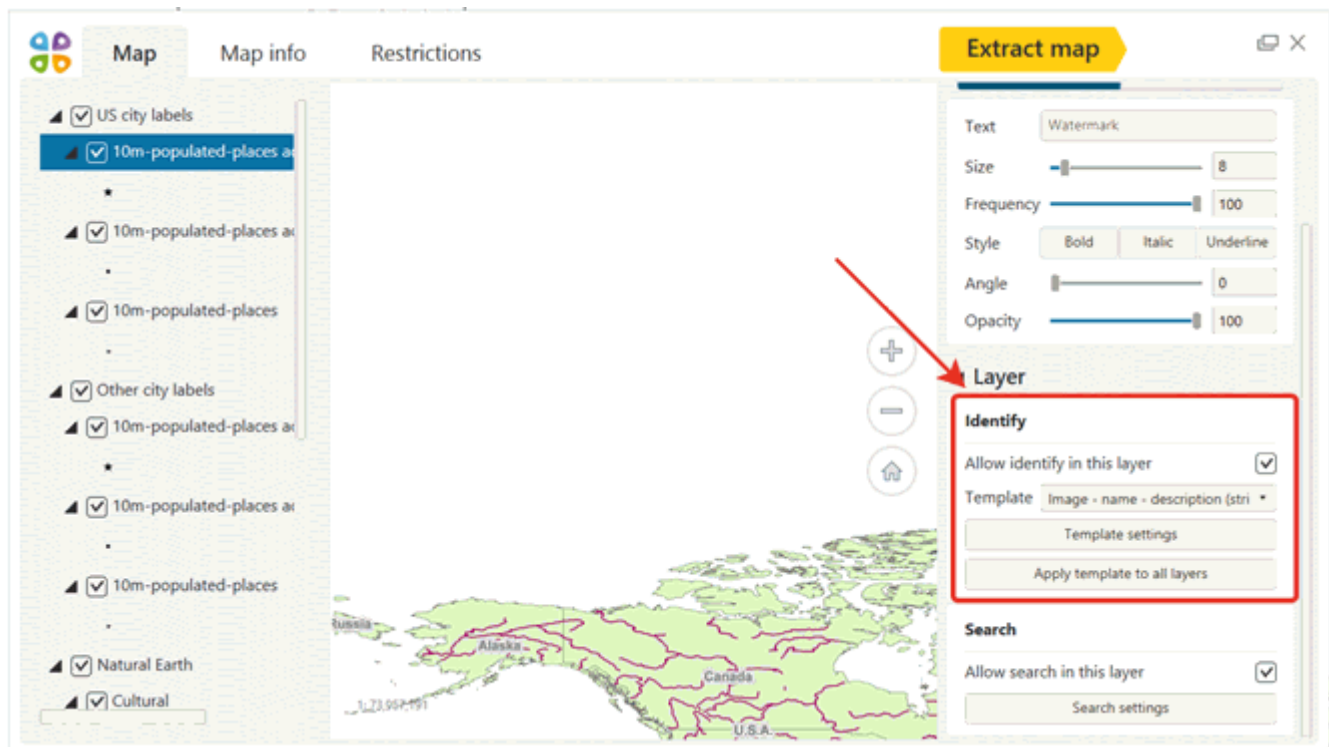
Information in the identification card created using this template is arranged as stripes.



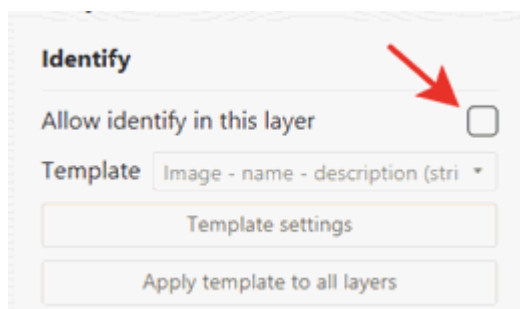
To use system template **Image-name-description (stripe)**, press **Customize extraction**.



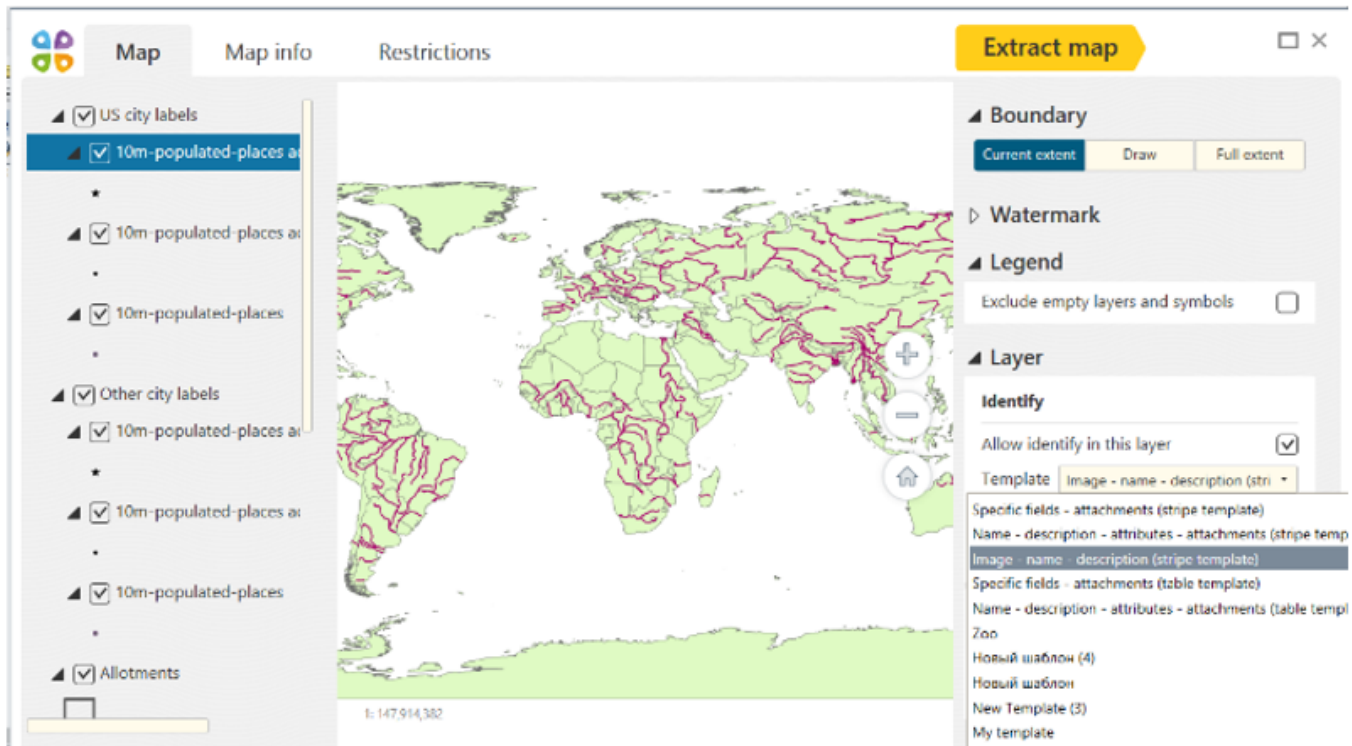
In CarryMap Builder layers list select the required layer and go to **Identify** section.



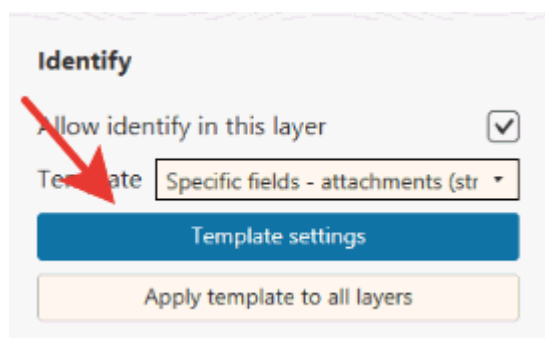
Check the **Allow identify this layer** option.



In **Template** section select **Image-name-description (stripe)** from the list.




To specify additional template settings, press **Template settings**.



In the appeared dialog *make sure* for stripe **Attachments by specific field from attributes** in section **Show attachments by field** to select the field. Settings of stripe background color are optional.

For stripe **Feature name** *make sure* to select field in **Show text from field** section. That is, during feature's identification, the feature's name will be displayed based on selected field. Select the text settings if necessary: font, color and alignment.

For stripe **Feature description** *make sure* to select field in **Show text from field** section. That is, during feature's identification, the feature's description will be displayed based on selected field. Select the text settings if necessary: font, color and alignment.

 **Template settings** ✕

Attachments by specific field from attributes

Show attachments by field

Stripe background color

White

...

Feature name

Show text from fields (or enter text)

Name object

Font

Arial 21.75pt

...

Text color

#333

...

Stripe background color

White

...

Text align

Feature description

Show text from fields (or enter text)

Object description

Font

Helvetica neue 20pt

...

Text color

#333

...

Stripe background color

White

...

Text align

OK

Cancel

Confirm all made changes pressing **OK**.

Template settings

Attachments by specific field from attributes

Show attachments by field: [dropdown]

Stripe background color: White [color picker]

Feature name

Show text from fields (or enter text): Name object [dropdown]

Font: Arial 21.75pt [font picker]

Text color: #333 [color picker]

Stripe background color: White [color picker]

Text align: [align buttons]

Feature description

Show text from fields (or enter text): Object description [dropdown]

Font: Helvetica neue 20pt [font picker]

Text color: #333 [color picker]

Stripe background color: White [color picker]

Text align: [align buttons]

OK Cancel

To apply selected template to all layers of your ArcGIS Pro project, press **Apply template to all layers**.

Identify

Allow identify in this layer: ☒

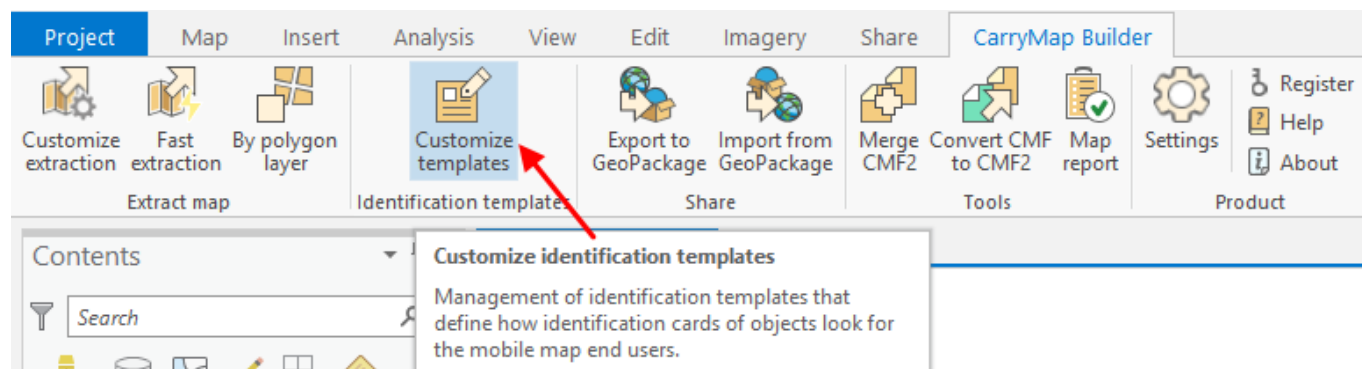
Template: Image - name - description (stri [dropdown]

Template settings

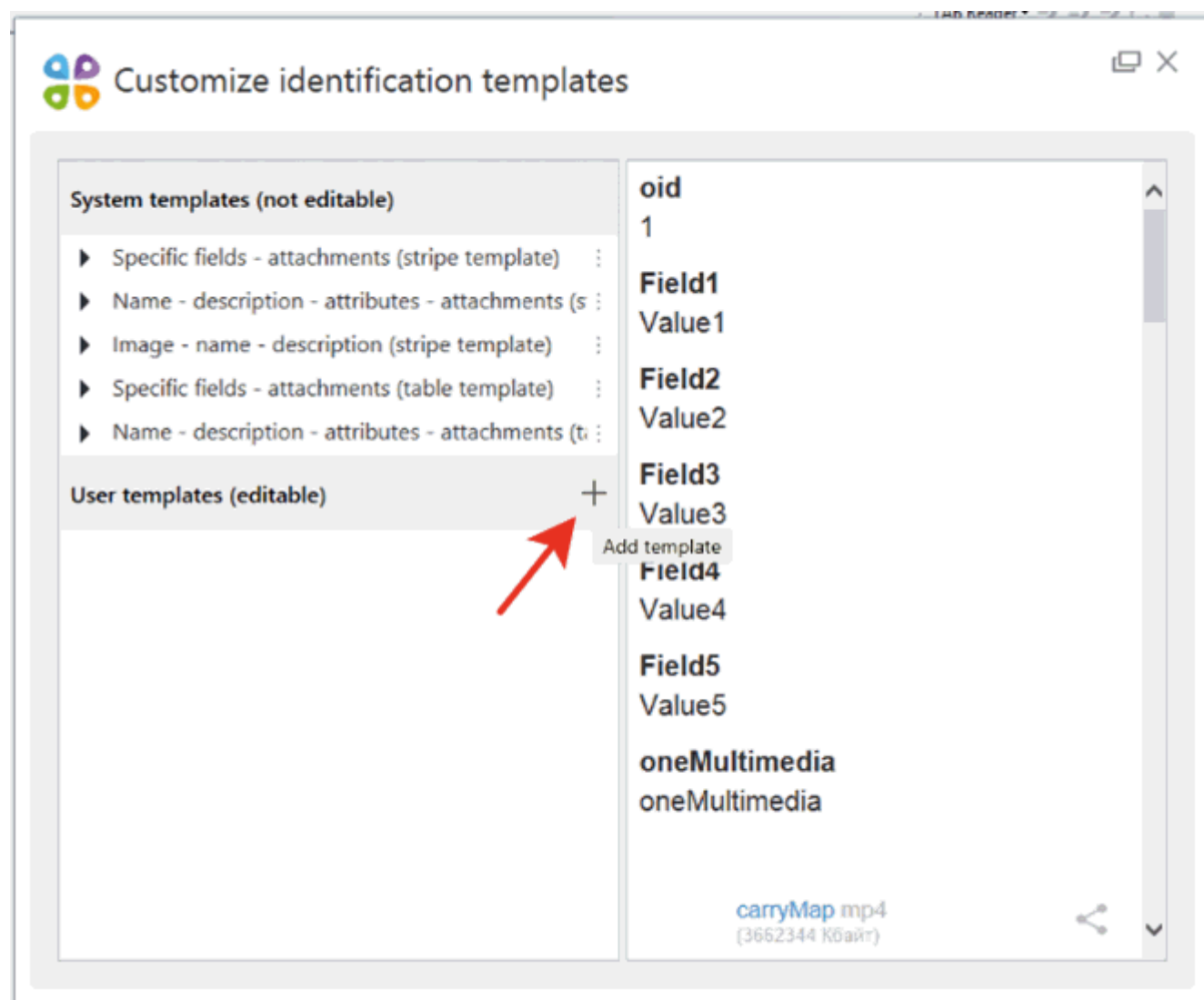
Apply template to all layers

Creating user identification template

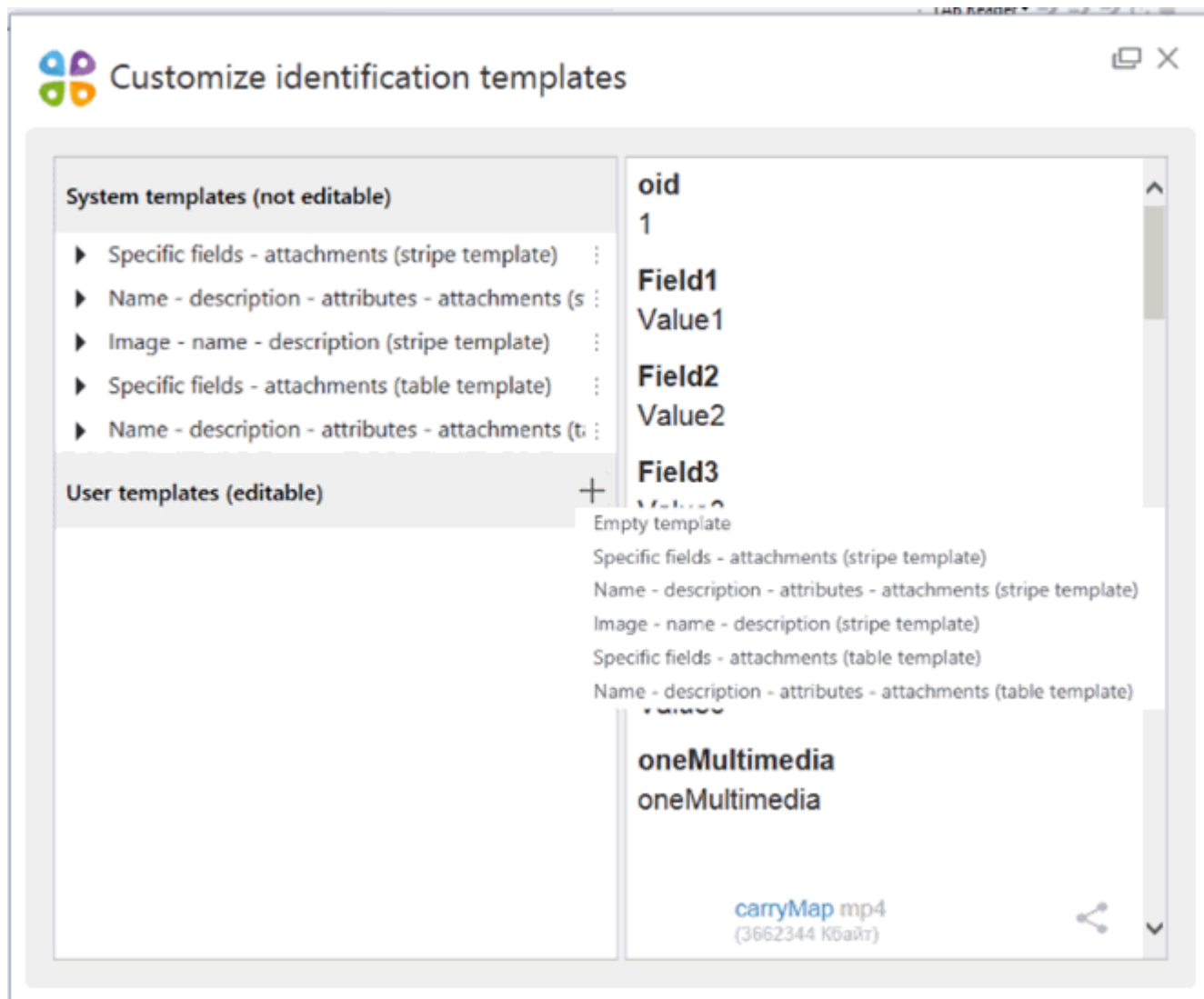
To create user identification template, run **Customize identification templates** tool.



To create new template, press **+**.



In the dropdown list select the empty template or template with predefined set of stripes.



Note that to any user template, either empty or with predefined set of stripes, you can add as many stripes as needed.

With created template you will be able to do the following:

- *Rename*.
- *Use default template* – selected template will be applied as the default template when opening other ArcGIS Pro projects.
- *Add stripes* – adding other stripes (attachments, HTML code, description), you can make your identification cards more informative.
- *Clone* – make copy of selected template with other name.
- *Delete*.



Customize identification templates



System templates (not editable)

- ▶ Specific fields - attachments (stripe template) ⋮
- ▶ Name - description - attributes - attachments (s ⋮
- ▶ Image - name - description (stripe template) ⋮
- ▶ Specific fields - attachments (table template) ⋮
- ▶ Name - description - attributes - attachments (ti ⋮

User templates (editable)

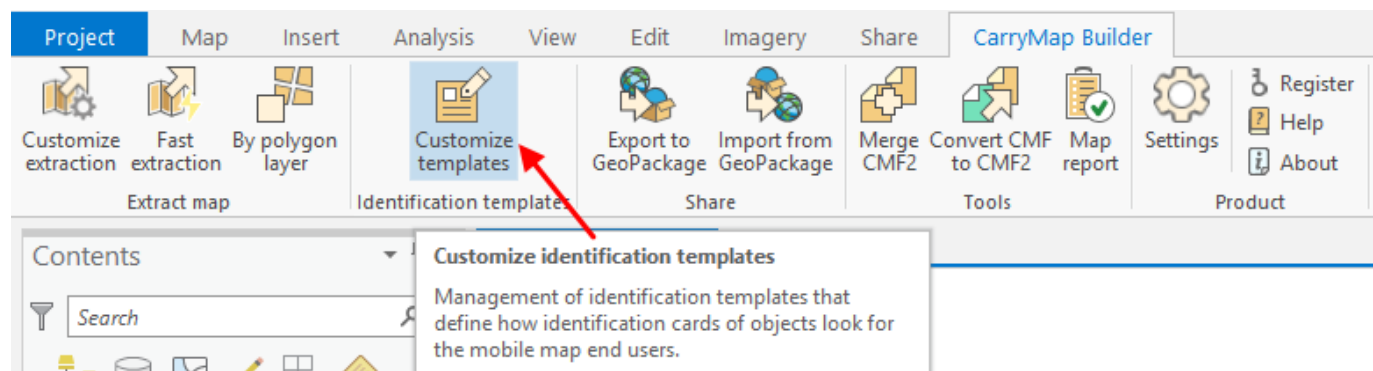


New Template

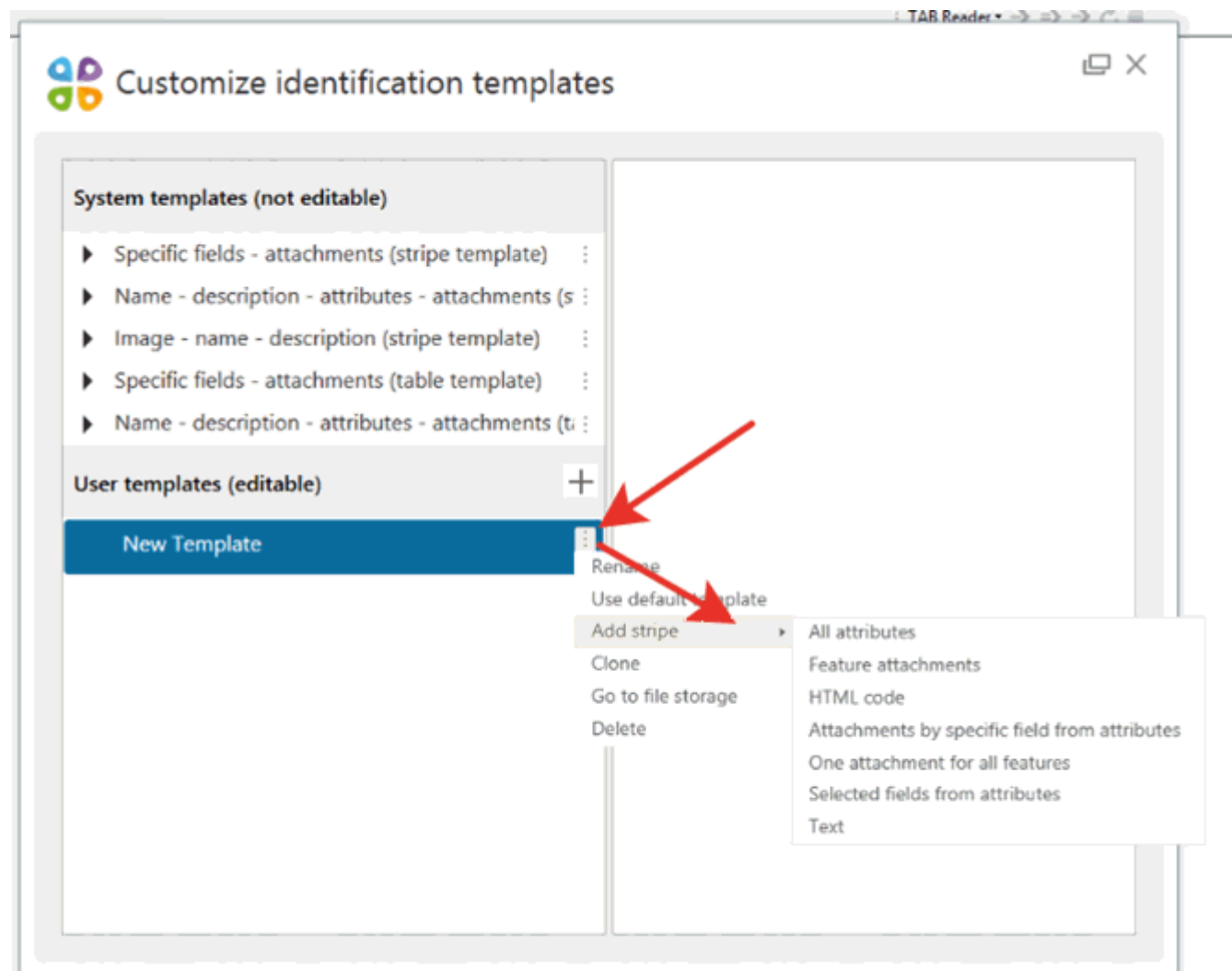
- Rename
- Use default template
- Add stripe ▶
- Clone
- Go to file storage
- Delete

Adding stripe to user template

To create new stripe in user template, run **Customize identification templates** tool.



In the appeared dialog select user template to which you want to add new stripe, press three dots icon and then press **Add stripe**.



Select the needed stripe and it will be added to the template.



Customize identification templates



System templates (not editable)

- ▶ Specific fields - attachments (stripe template) ⋮
- ▶ Name - description - attributes - attachments (s ⋮
- ▶ Image - name - description (stripe template) ⋮
- ▶ Specific fields - attachments (table template) ⋮
- ▶ Name - description - attributes - attachments (t ⋮

User templates (editable)



▼ New Template ⋮

 All attributes (All attributes) ⋮

All attributes

All attributes

Font

Helveti ...

Text color

#333 ...



Header bar background color

White ...

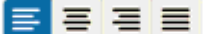


Value bar background color

White ...



Text align



Show displayed expression ☒

Show empty fields ☐

Stripe template ☒

Table template ☐

oid

1

Field1

Value1

Field2

Value2

Field3

Value3

Field4

Value4

Field5

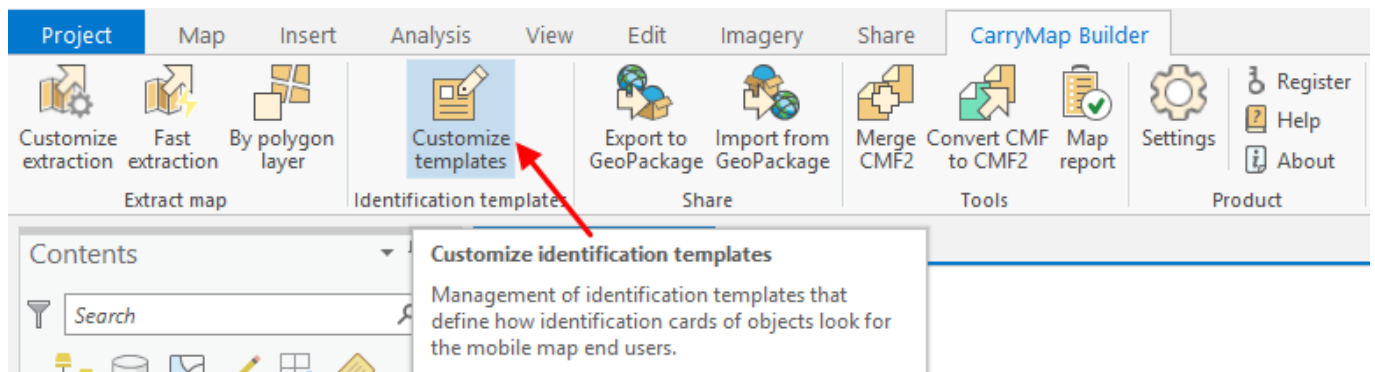
Value5

oneMultimedia

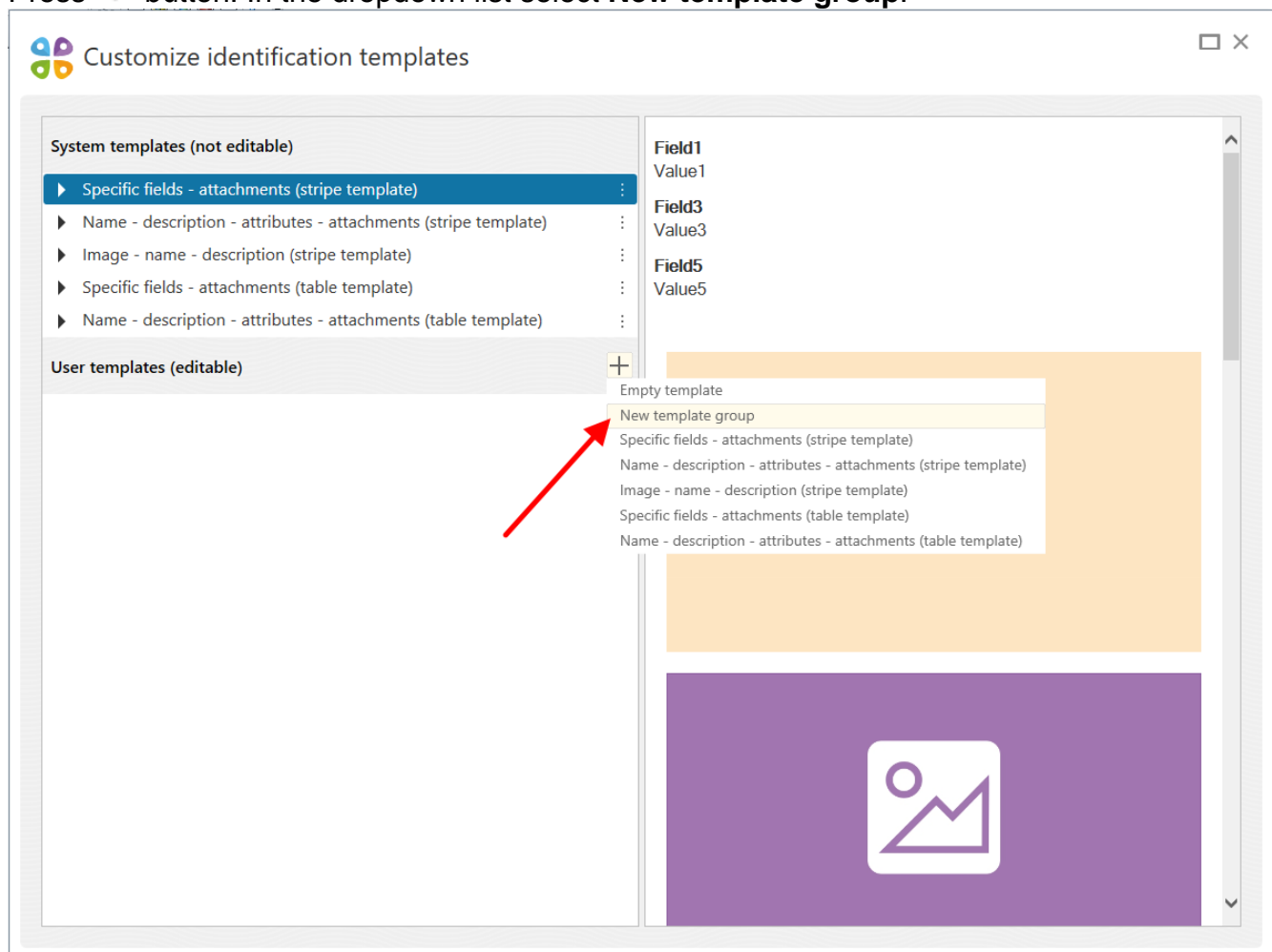
oneMultimedia

Creating template group

To create template group, run **Customize identification templates** tool.

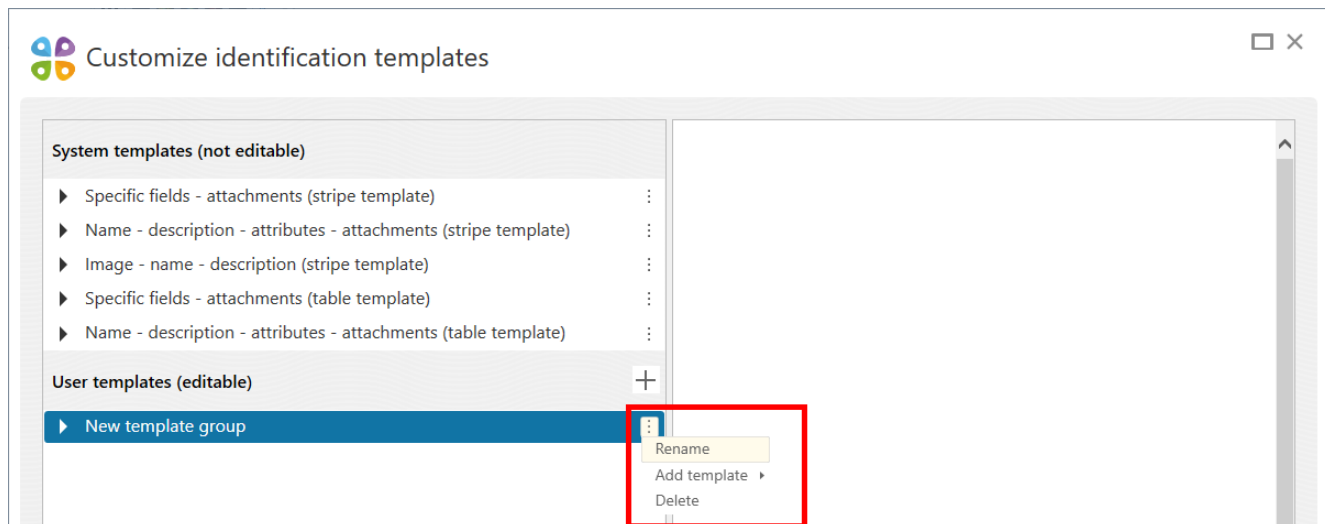


Press **+** button. In the dropdown list select **New template group**.

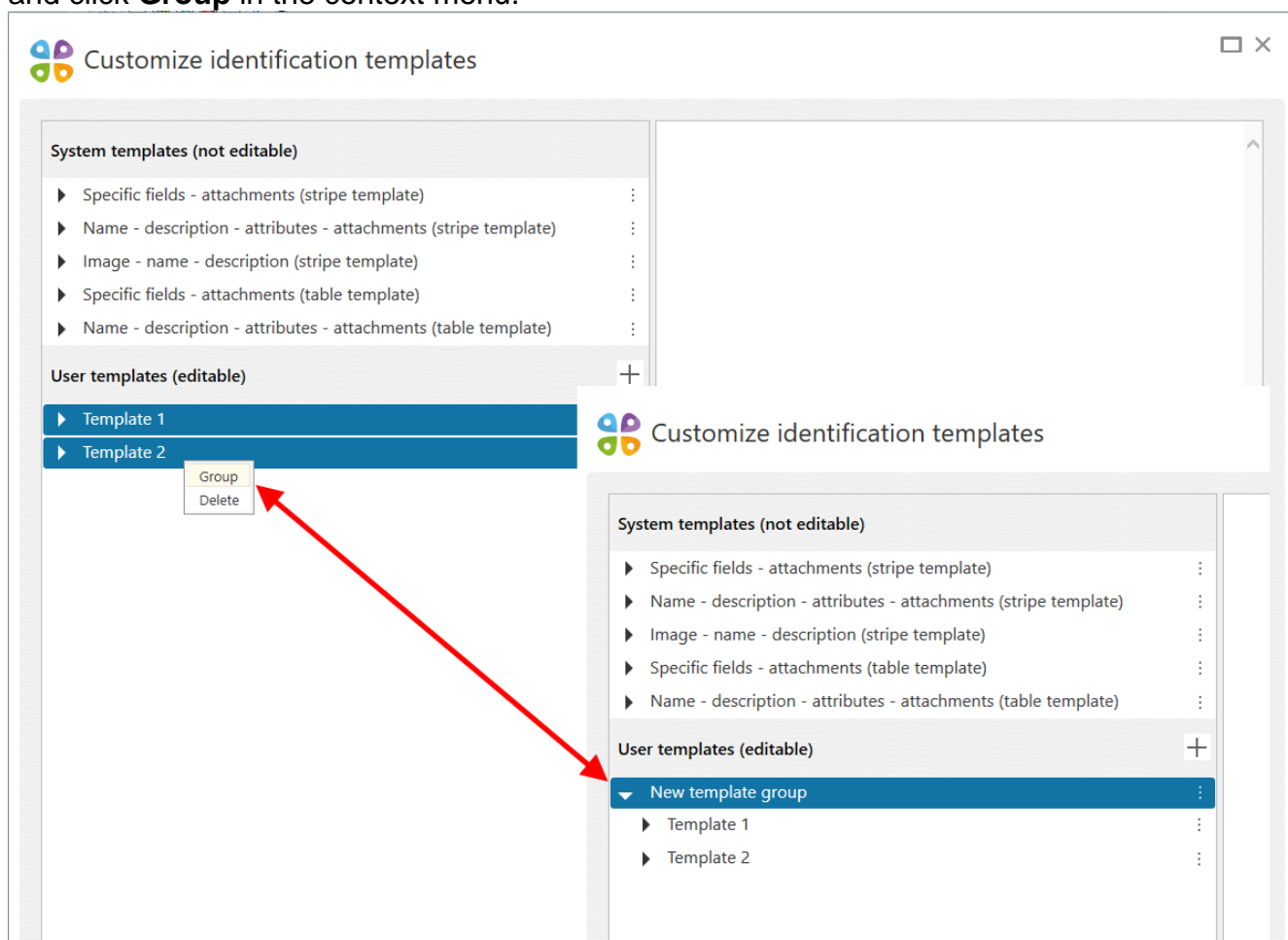


Operations available for the created template group are as follow:

- *Rename*.
- *Add template* – create an empty template or template with predefined set of stripes.
- *Delete*.



To create the group from the existing user templates, select the required templates in the list and click **Group** in the context menu.



To move templates to the existing template group, select them in the list and then move to the required group.

System templates (not editable)

- ▶ Specific fields - attachments (stripe template) ⋮
- ▶ Name - description - attributes - attachments (stripe template) ⋮
- ▶ Image - name - description (stripe template) ⋮
- ▶ Specific fields - attachments (table template) ⋮
- ▶ Name - description - attributes - attachments (table template) ⋮

User templates (editable) +

- ▼ New template group ⋮
 - ▶ Template 1 ⋮
 - ▶ Template 2 ⋮
 - ▶ Template 3 ⋮
 - ▶ Template 4 ⋮



Feature name

Feature description

 Customize identification templates

System templates (not editable)

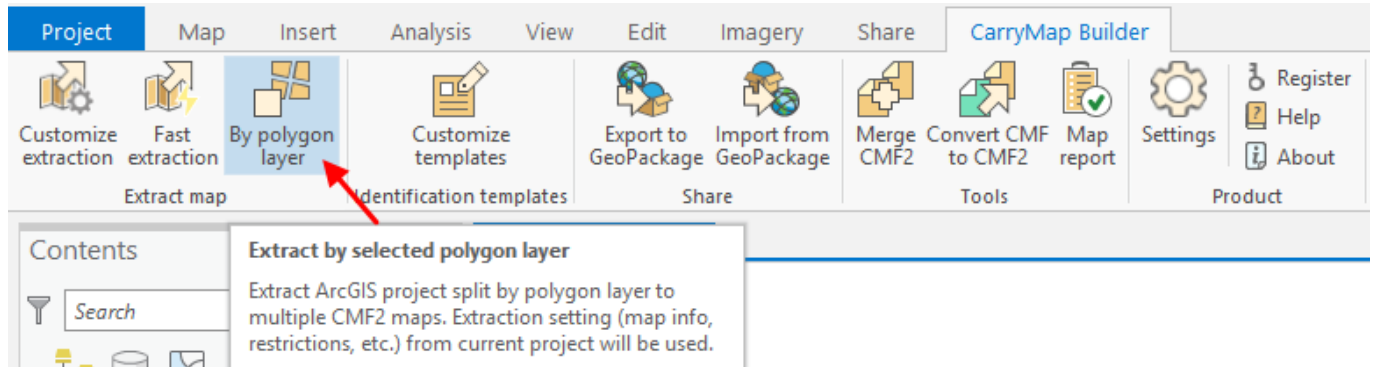
- ▶ Specific fields - attachments (stripe template) ⋮
- ▶ Name - description - attributes - attachments (stripe template) ⋮
- ▶ Image - name - description (stripe template) ⋮
- ▶ Specific fields - attachments (table template) ⋮
- ▶ Name - description - attributes - attachments (table template) ⋮

User templates (editable) +

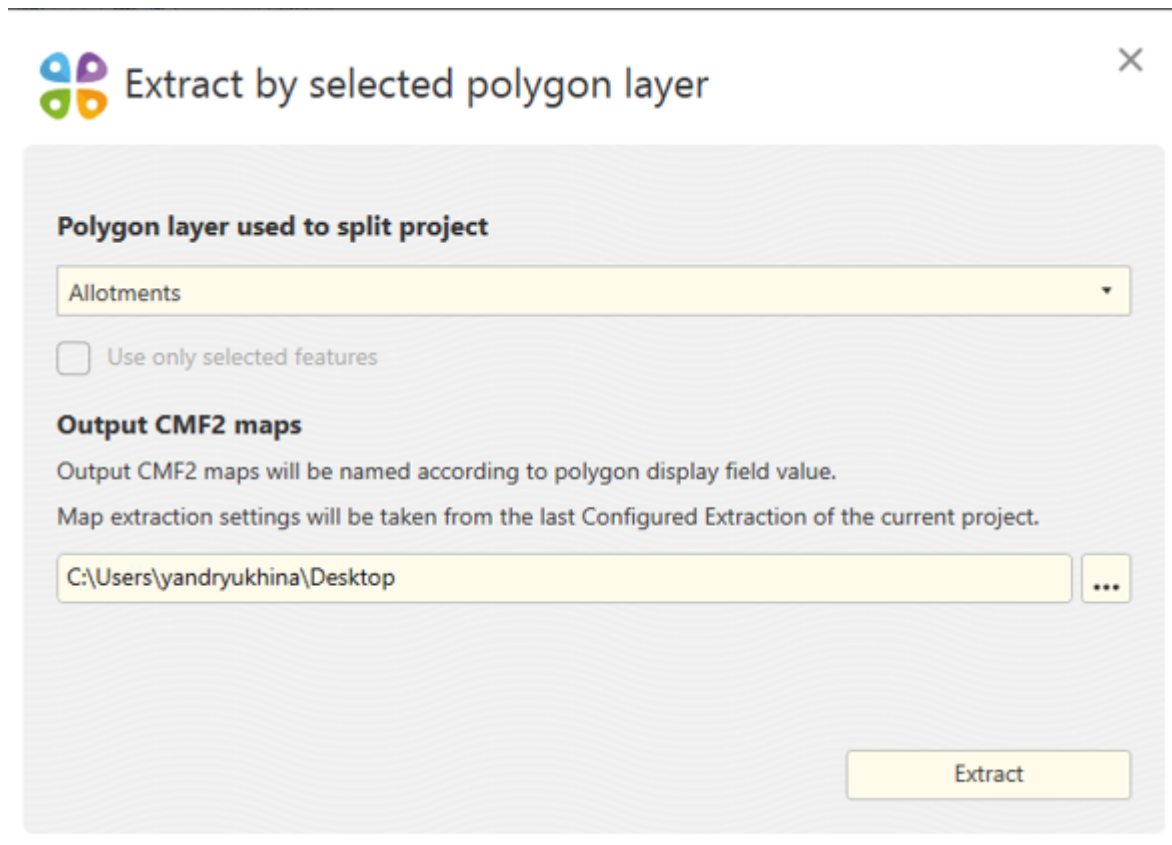
- ▼ New template group ⋮
 - ▶ Template 1 ⋮
 - ▶ Template 4 ⋮
 - ▶ Template 2 ⋮
 - ▶ Template 3 ⋮

Extracting map by selected polygons

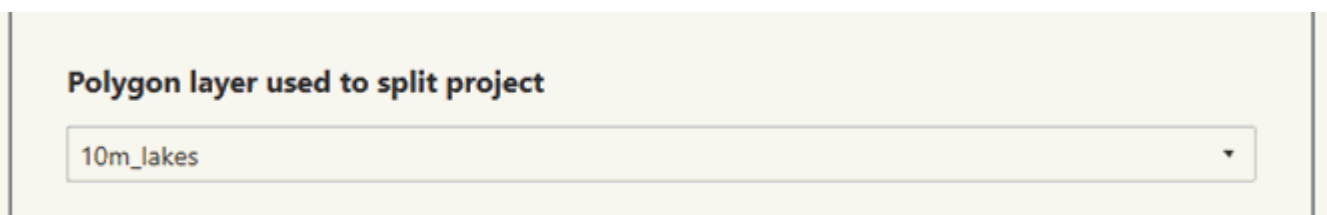
To create multiple mobile maps with borders specified by selected polygon layer, run **Extract map by selected polygon layer** tool.



The tool dialog will appear.



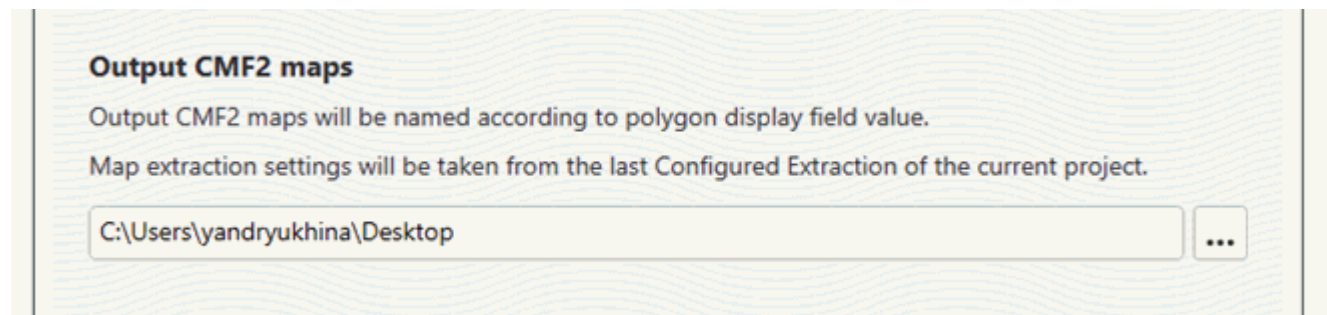
Select polygon layer by which your map should be extracted pressing the arrow icon. In the dropdown list you will see all polygon layers of your current map of ArcGIS Pro project.



To perform extraction by selected polygon features only, you need to preliminary select these features on your map with the Select features tool in ArcGIS Pro. Select the separation layer where you selected features and check the Use only selected features option.

☒ Use only selected features

Select where to the output CMF2 file should be saved.



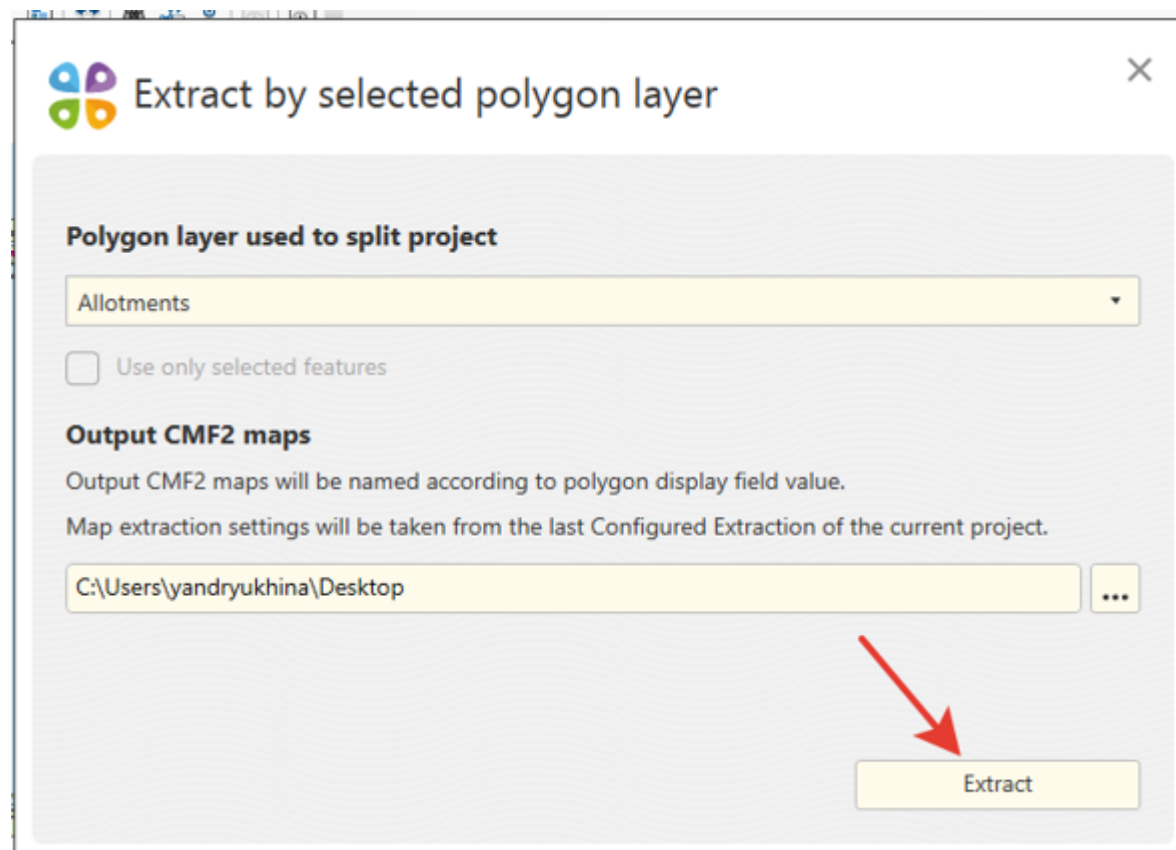
Output CMF2 maps

Output CMF2 maps will be named according to polygon display field value.

Map extraction settings will be taken from the last Configured Extraction of the current project.

C:\Users\yandryukhina\Desktop ...

To change location of the output file, press  and select another destination folder. Now press **Extract** button.



Extract by selected polygon layer

Polygon layer used to split project

Allotments

☐ Use only selected features

Output CMF2 maps

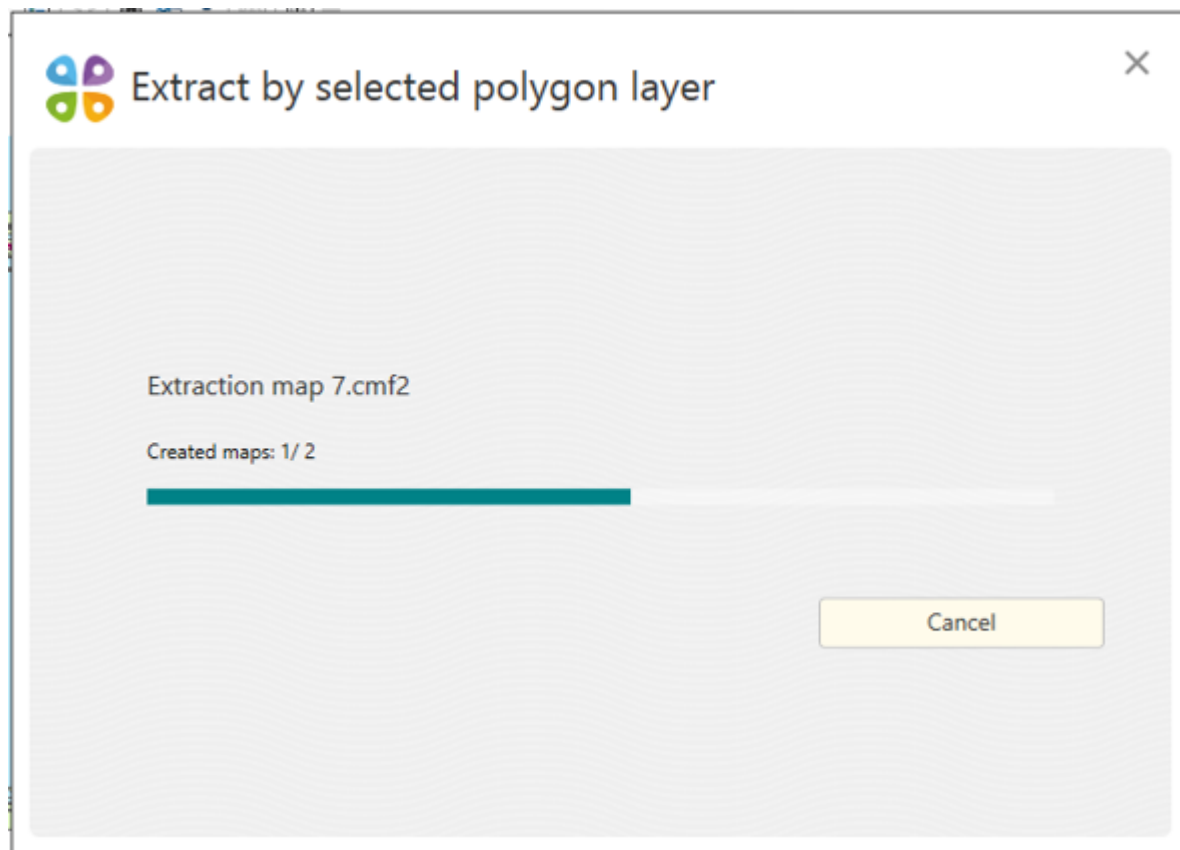
Output CMF2 maps will be named according to polygon display field value.

Map extraction settings will be taken from the last Configured Extraction of the current project.

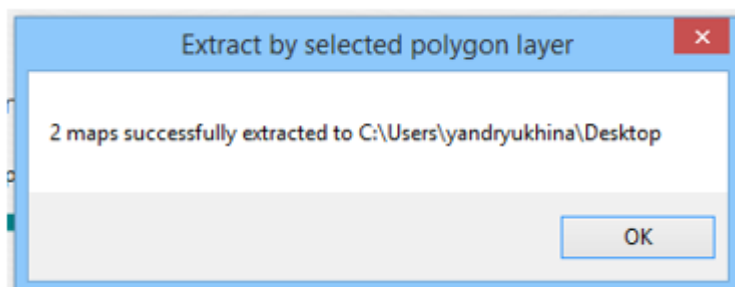
C:\Users\yandryukhina\Desktop ...

Extract

The dialog showing the process progress will appear.



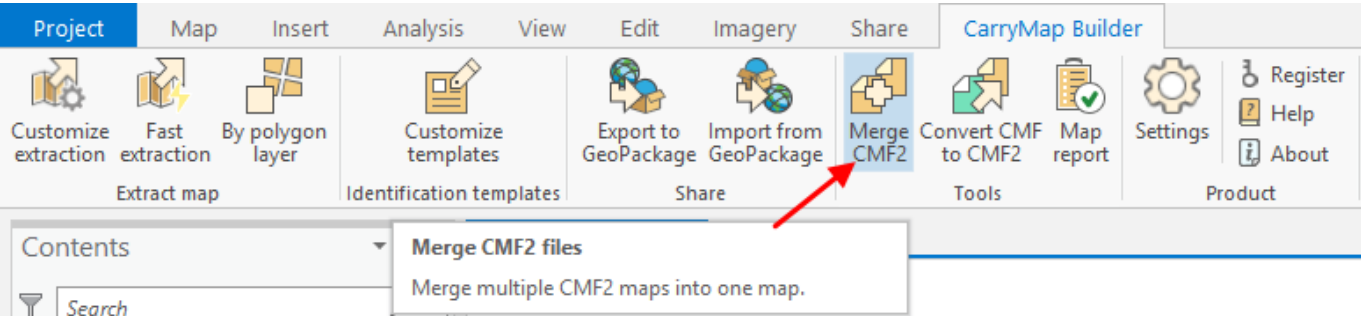
Upon the process completion you will see the appropriate dialog.



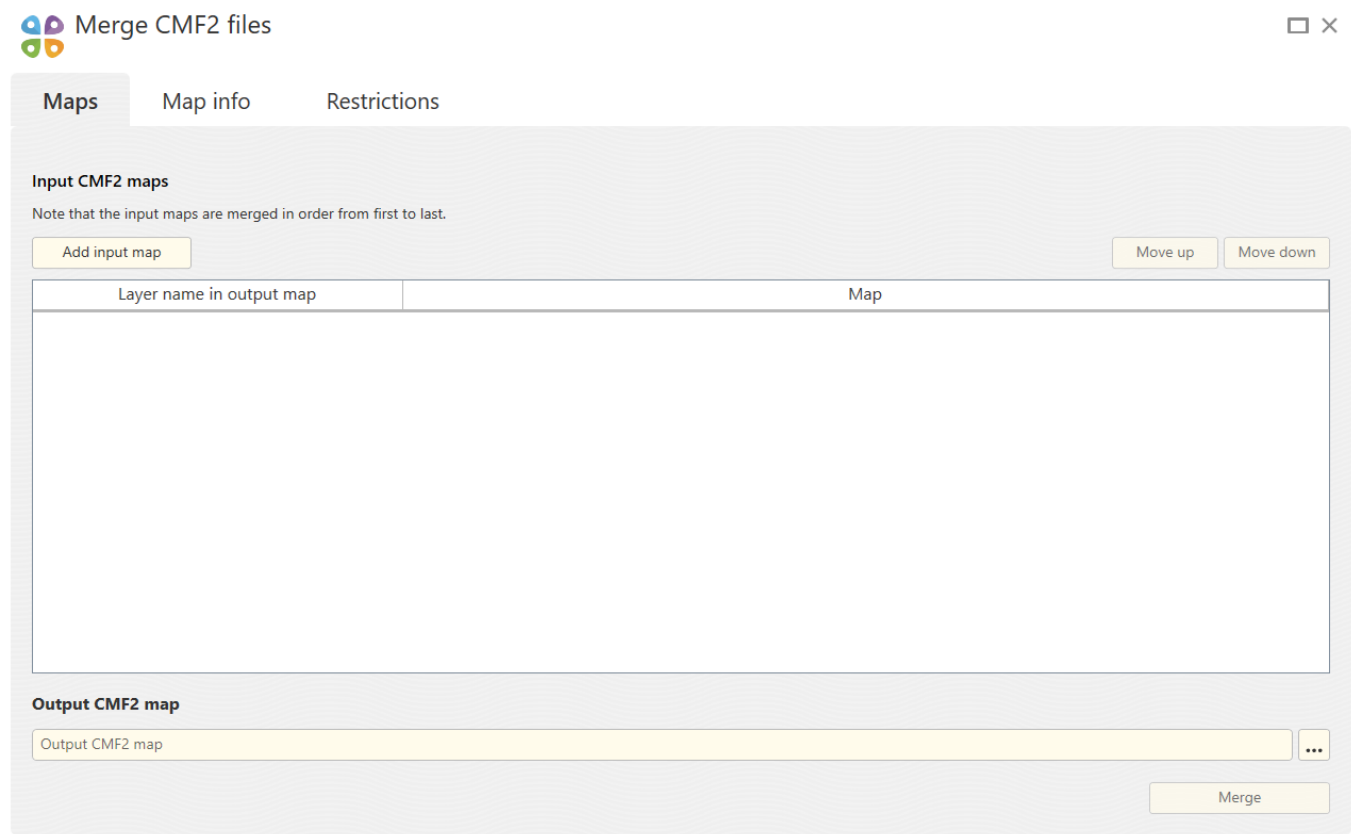
Make sure that the output maps have been saved to specified folder.

Run Merge CMF2 files tool

If you have multiple CMF2 maps covering the same area, they can be merged to one map for your convenience. To do so, run **Merge CMF2 files** tool on CarryMap Builder tab.




The tool dialog will appear.



Selecting maps to be merged

Select CMF2 maps that you want to merge pressing **Add input map** button.

 Merge CMF2 files □ ×

Maps

Map info

Restrictions

Input CMF2 maps

Note that the input maps are merged in order from first to last.

Add input map

Move up

Move down

Layer name in output map	Map
--------------------------	-----

Output CMF2 map

Output CMF2 map

...

Merge

In the appeared dialog select the required maps and their names will be shown in the tool window.

Maps

Map info

Restrictions

Input CMF2 maps

Note that the input maps are merged in order from first to last.

Add input map

Move up

Move down

Layer name in output map	Map
Physical map of the world	C:\MergeCMF2maps\Basemap.cmf2
Forest map	C:\MergeCMF2maps\Forest_map.cmf2
Soil map	C:\MergeCMF2maps\Soil_map.cmf2

Output CMF2 map

C:\MergeCMF2maps\BasemapOut.cmf2

...

Merge

To change the order of the added maps, select them in the list and press **Move up** or **Move down** button, or long press the left mouse button and reorder the selected maps as needed.

Maps

Map info

Restrictions

Input CMF2 maps

Note that the input maps are merged in order from first to last.

Add input map

Move up

Move down

Layer name in output map	Map
Physical map of the world	C:\MergeCMF2maps\Basemap.cmf2
Forest map	C:\MergeCMF2maps\Forest_map.cmf2
Soil map	C:\MergeCMF2maps\Soil_map.cmf2


Output CMF2 map

C:\MergeCMF2maps\BasemapOut.cmf2

...

Merge

To view information about the added map, select it and press the **i** button on the right of the map name.

 Merge CMF2 files

Maps

Map info

Restrictions

Input CMF2 maps

Note that the input maps are merged in order from first to last.

Add input map

Move up

Move down

Layer name in output map	Map
Physical map of the world	C:\MergeCMF2maps\Basemap.cmf2
Forest map	C:\MergeCMF2maps\Forest_map.cmf2
Soil map	C:\MergeCMF2maps\Soil_map.cmf2

Map name:

Physical map of the world

Publisher:

Data East, LLC

Company:

Data East, LLC

Email:

support@dataeast.com

Website:

dataeast.com

Coordinate system:

WGS_1984_Web_Mercator_Auxiliary_Sphere (WKID: 3857)

Additional info:

Made with Natural Earth. Free vector and raster map data @ naturalearthdata.com.

DATA EAST


Output CMF2 map

C:\MergeCMF2maps\BasemapOut.cmf2

...

Merge

To delete the added map/maps from the list, select the required map/maps and press the cross icon on the right of the map name or click the **Delete** command in the context menu.

 Merge CMF2 files

Maps

Map info

Restrictions

Input CMF2 maps

Note that the input maps are merged in order from first to last.

Add input map

Move up

Move down

Physical map of the world	C:\MergeCMF2maps\Basemap.cmf2
Forest map	C:\MergeCMF2maps\Forest_map.cmf2
Soil map	C:\MergeCMF2maps\Soil_map.cmf2

...

Output CMF2 map

C:\MergeCMF2maps\BasemapOut.cmf2


...

Merge

Specifying map properties

You can create a summary info about your map that will be shown in the **About map** dialog. That is, when opening this dialog, your users will see information about the map publisher, company name and logo, website, contact email, and map description.

To set the **About map** dialog content, go to **Map info** tab and fill in all the required fields: map name, publisher, company, email, URL, additional info.

 Merge CMF2 files □ ×

Maps

Map info

Restrictions

Map name:

Physical map of the world

Publisher:

Data East, LLC

Company:

Data East, LLC

Email:

support@dataeast.com

URL:


dataeast.com

Additional info:

Made with Natural Earth. Free vector and raster map data @
naturalearthdata.com.

Browse

Clear

 **DATA EAST**

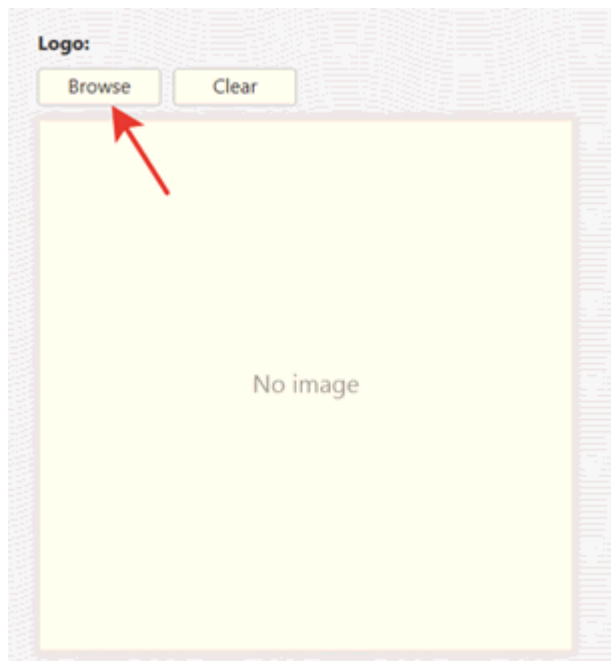
Output CMF2 map

C:\MergeCMF2maps\BasemapOut.cmf2

...

Merge

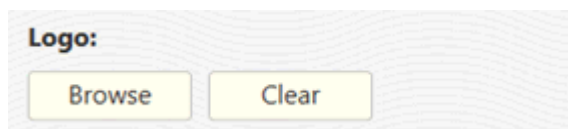
To add logo, press **Browse**.



In the appeared window select the required pic and it will be shown in the preview window.



To delete added logo, press **Clear**.



Note that information about the output CMF2 map can be taken from the data specified for the first input map.

To do this, click **Yes** in the notification that appears when adding the first map or changing the maps order.

Merge CMF2 files

Maps

Map info

Restrictions

Input CMF2 maps

Note that the input maps are merged in order from first to last.

Add input map

Move up

Move down

Layer name in output map	Map
Physical map of the world	C:\MergeCMF2maps\BasemapOut.cmf2

CarryMap Builder

Attention! Information about the output CMF2 map can be taken from the data specified for the input map Basemap.cmf2. Would you like to change the current data on the Information tab?

YesNo

Output CMF2 map

C:\MergeCMF2maps\BasemapOut.cmf2

Merge

The corresponding fields on the Information tab will be automatically updated.

Merge CMF2 files

Maps

Map info

Restrictions

Map name:

Physical map of the world

Publisher:

Data East, LLC

Company:

Data East, LLC

Email:

support@dataeast.com

URL:


dataeast.com

Additional info:

Made with Natural Earth. Free vector and raster map data @ naturalearthdata.com.

Browse

Clear

 **DATA EAST**

Output CMF2 map

C:\MergeCMF2maps\BasemapOut.cmf2

Merge

Setting mobile map protection

You can protect your mobile map with password, or allow access for selected devices only, or set map availability date specifying period when your mobile map will be available for users. Thus, each time the users open your mobile map in CarryMap app, they will be asked to either enter the password or the device ID, or the map will become unavailable after specified date, respectively.

To specify map protection settings, go to **Restrictions** tab.

Merge CMF2 files

Maps Map info Restrictions

☐ Password protected:

☐ Valid from:

3/11/2024

☐ Valid till:

3/11/2024

☐ Device ID protected

Select all Unselect all

Output CMF2 map

C:\MergeCMF2maps\BasemapOut.cmf2

Merge

To protect your map by password, check **Password protected**. In the appeared dialog enter the password.

☒ Password protected:

.....


To cancel protection by password setting, uncheck **Password protected** option.

☐ Password protected:

.....


To protect you map by availability date, check **Valid from**.


☒ **Valid from:**

5/23/2019 

This will be the date starting from which your map will be available for use. By default the current date is suggested, but you can change it pressing the calendar icon and selecting the needed date

☒ **Valid from:**


5/25/2019 

 May 2019

Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3	4	5
6	7	8	9	10	11	
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		


To set the date from which your map will not be allowed for use, check **Valid till**.


☒ **Valid till:**

5/25/2019 

By default the current date is suggested, but you can change it pressing the calendar icon and selecting the needed date.

☒ **Valid till:**

5/25/2019 

 May 2019


Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

To cancel protection by map availability date, uncheck **Valid from** and **Valid till** options.

To allow opening your map on selected devices only, check **Device ID protected** option.

☒ **Device ID protected**

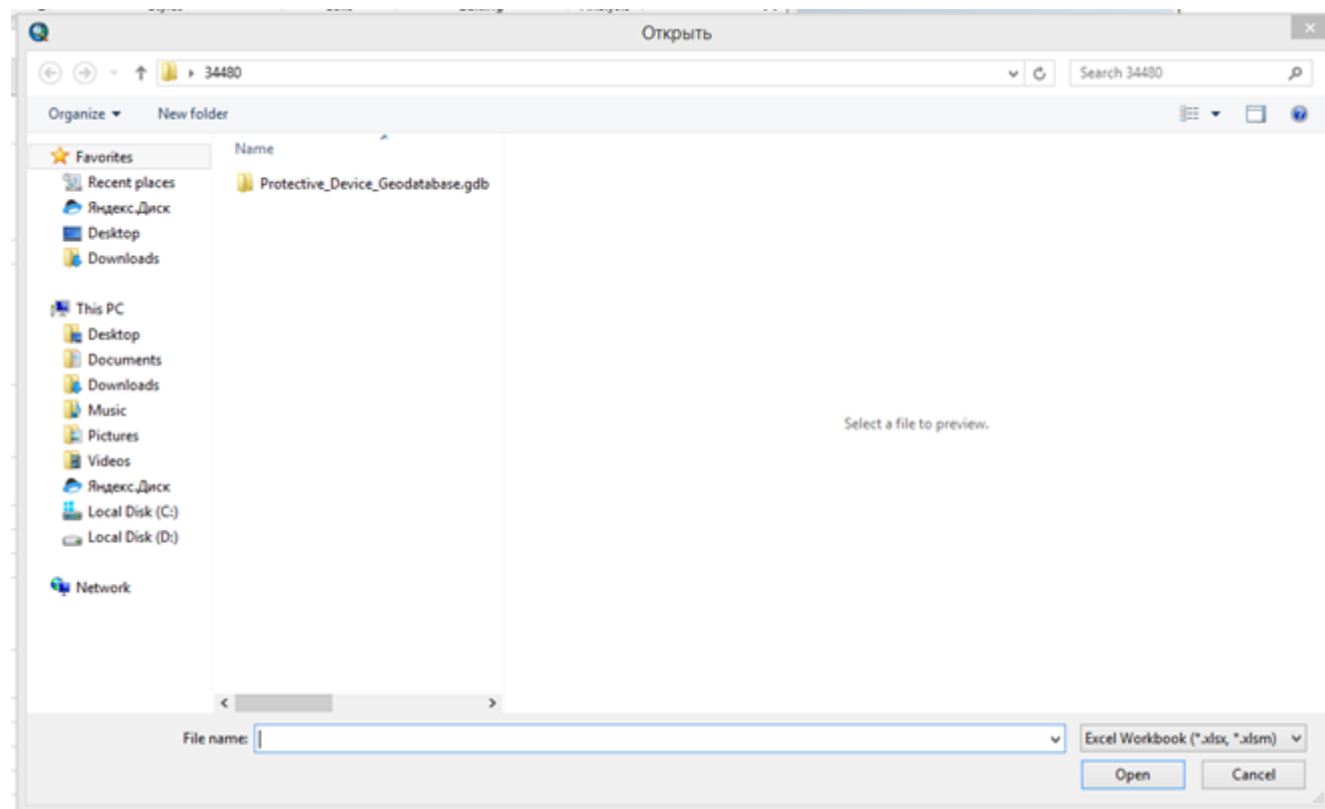
Press  and enter the device name (device owner name, for example) and device ID.

You can allow opening your map on multiple devices, to do so press  and add as many devices as needed same as described above.

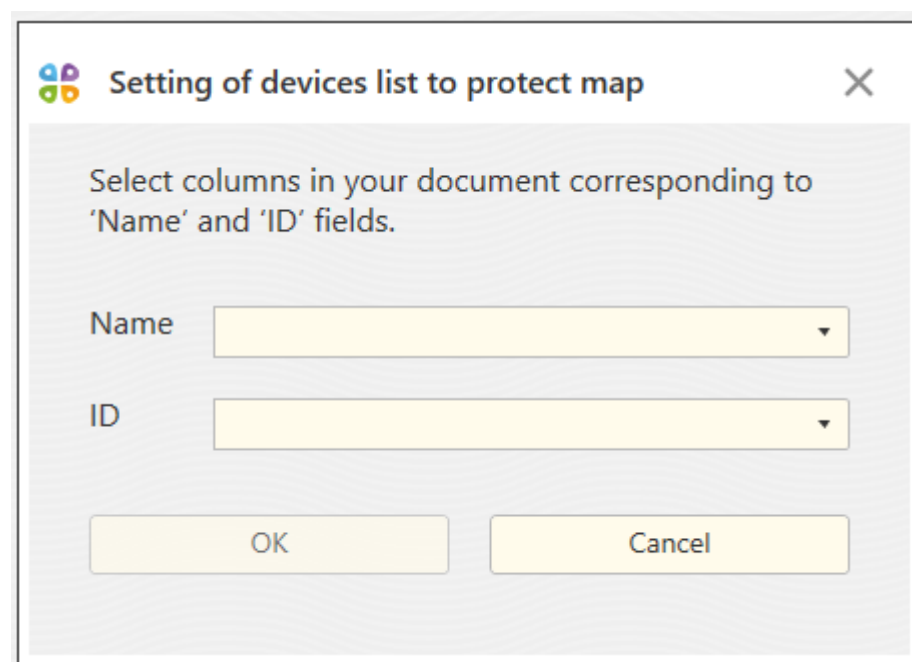
For your convenience, you can download the pre-arranged list of authorized devices in Excel or CSV format, to do so, press Download devices list button.



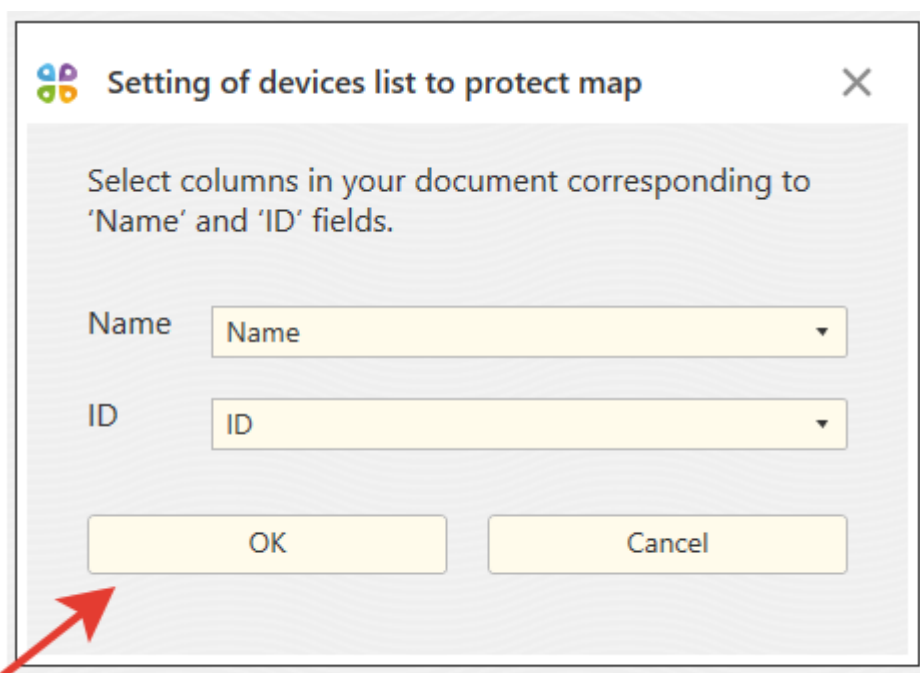
In the appeared window select the needed file and press Open.



In the appeared table select columns containing the devices owners names and devices IDs.



Press OK.



The image shows a dialog box titled "Setting of devices list to protect map" with a close button (X) in the top right corner. Inside the dialog, there is a text instruction: "Select columns in your document corresponding to 'Name' and 'ID' fields." Below this, there are two dropdown menus. The first is labeled "Name" and has "Name" selected. The second is labeled "ID" and has "ID" selected. At the bottom of the dialog, there are two buttons: "OK" and "Cancel". A red arrow points from the bottom left towards the "OK" button.

In the appeared window you will see the names and IDs of all devices from your list.

☒ **Device ID protected**

+

<input type="checkbox"/>	Julia	123
<input type="checkbox"/>	Andrew	1234
<input type="checkbox"/>	Maxim	1235
<input type="checkbox"/>	Irina	456

Check the boxes near the devices that should be authorized to open your map or press Select all to select all devices at a time.

☒ **Device ID protected**

<input checked="" type="checkbox"/>	Julia	123
<input checked="" type="checkbox"/>	Andrew	1234
<input type="checkbox"/>	Maxim	1235
<input checked="" type="checkbox"/>	Irina	456

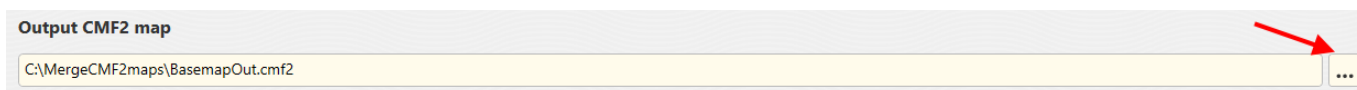
To delete added device, press cross icon near its name.

☒ Andrew

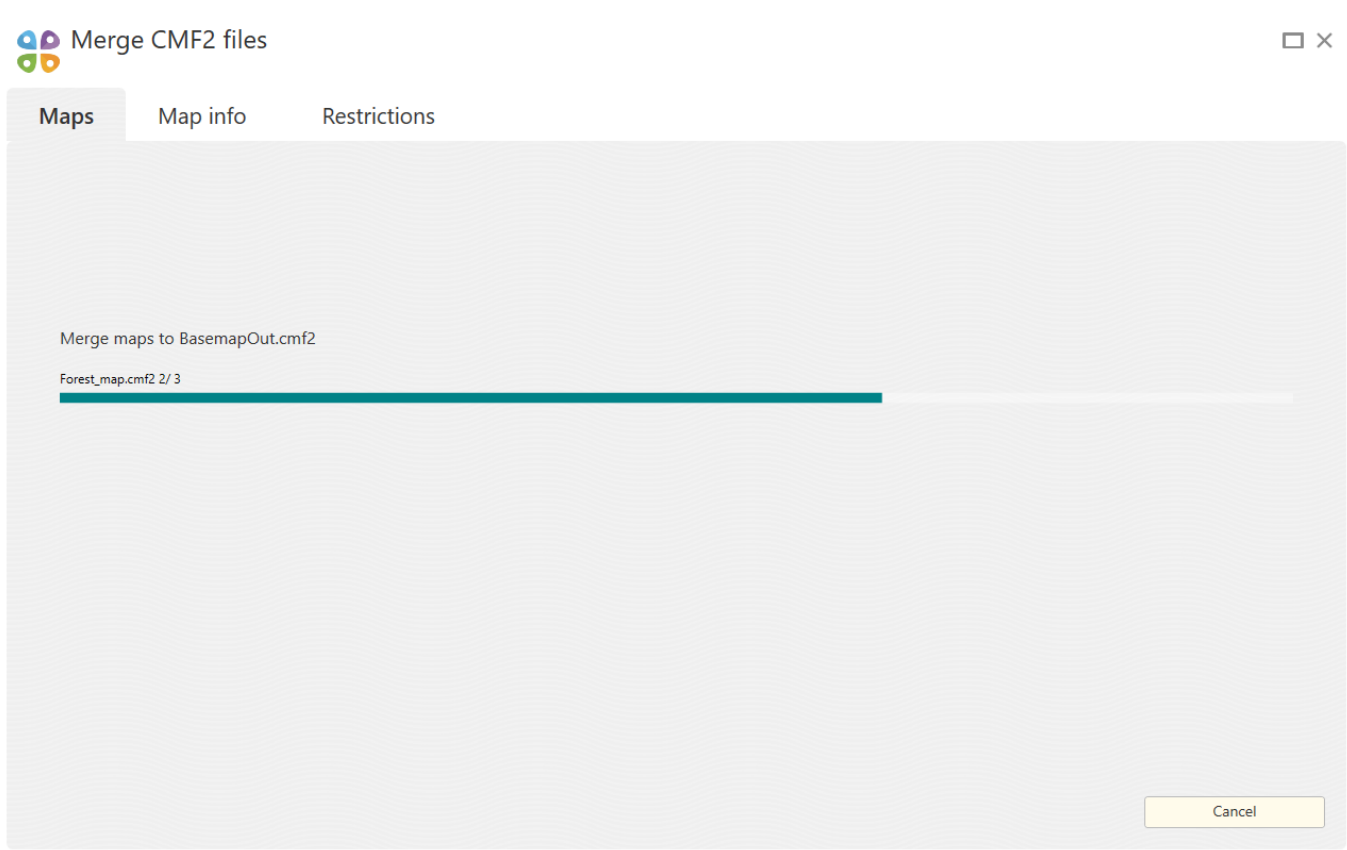
123457891234567891423458789789

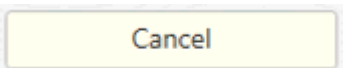
Merging maps

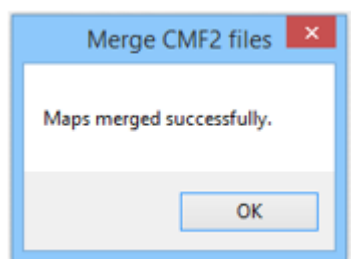
Specify the output merged map name and location pressing the three dots button.



After that press  to start the maps merging process.

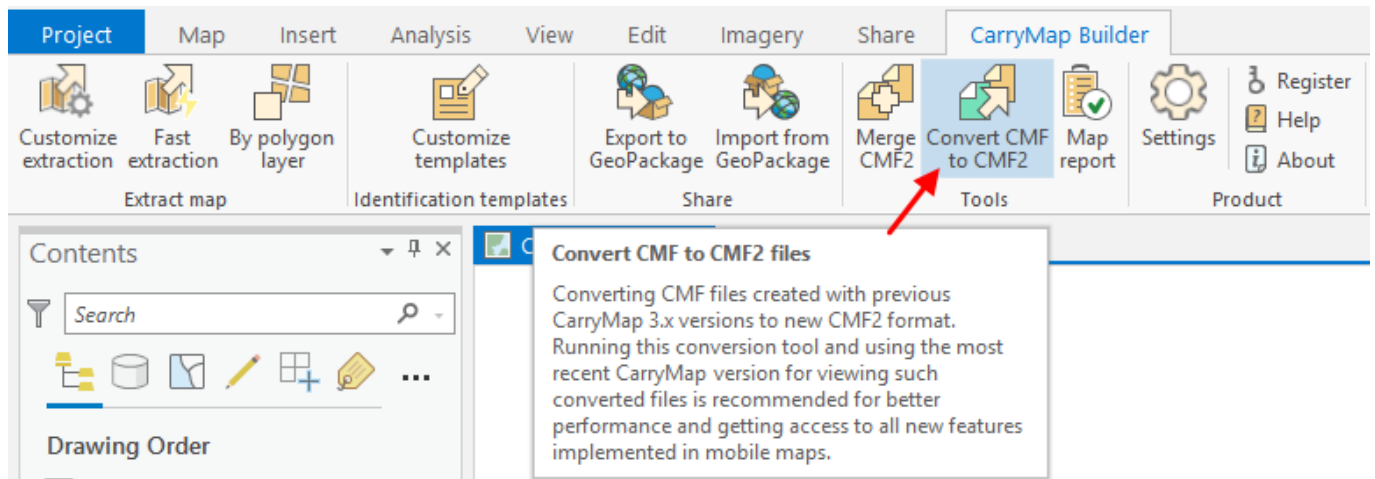


To cancel merging of multiple CMF2 maps to one map, press . Upon the process completion you will see the appropriate dialog.



Converting CMF to CMF2

CarryMap Builder is the new generation of ArcGIS Desktop extension with enhanced functionality that replaced CarryMap 3.x. CarryMap Builder creates mobile maps in the new CMF2 format, though users having maps in the old CMF format created using the previous extension generation CarryMap 3.x, can convert them to the new format. For such conversion the CarryMap Builder **Convert CMF to CMF2 files** tool is used. Run the **Convert CMF to CMF2 files** tool on CarryMap Builder tab to start the conversion process.



In the appeared dialog select CMF map that needs to be converted to new CMF2 format. To do so, press three dots button and select the needed file.



Convert CMF to CMF2



CMF is a CarryMap version 3 converted map file format. We recommend converting CMF to CMF2 and using latest CarryMap applications to view it, as it will grant you best app performance and most available features.

Input CMF



Output CMF2



In the **Output CMF2** section press three dots button, enter the output CMF2 file name and location.



Convert CMF to CMF2



CMF is a CarryMap version 3 converted map file format. We recommend converting CMF to CMF2 and using latest CarryMap applications to view it, as it will grant you best app performance and most available features.

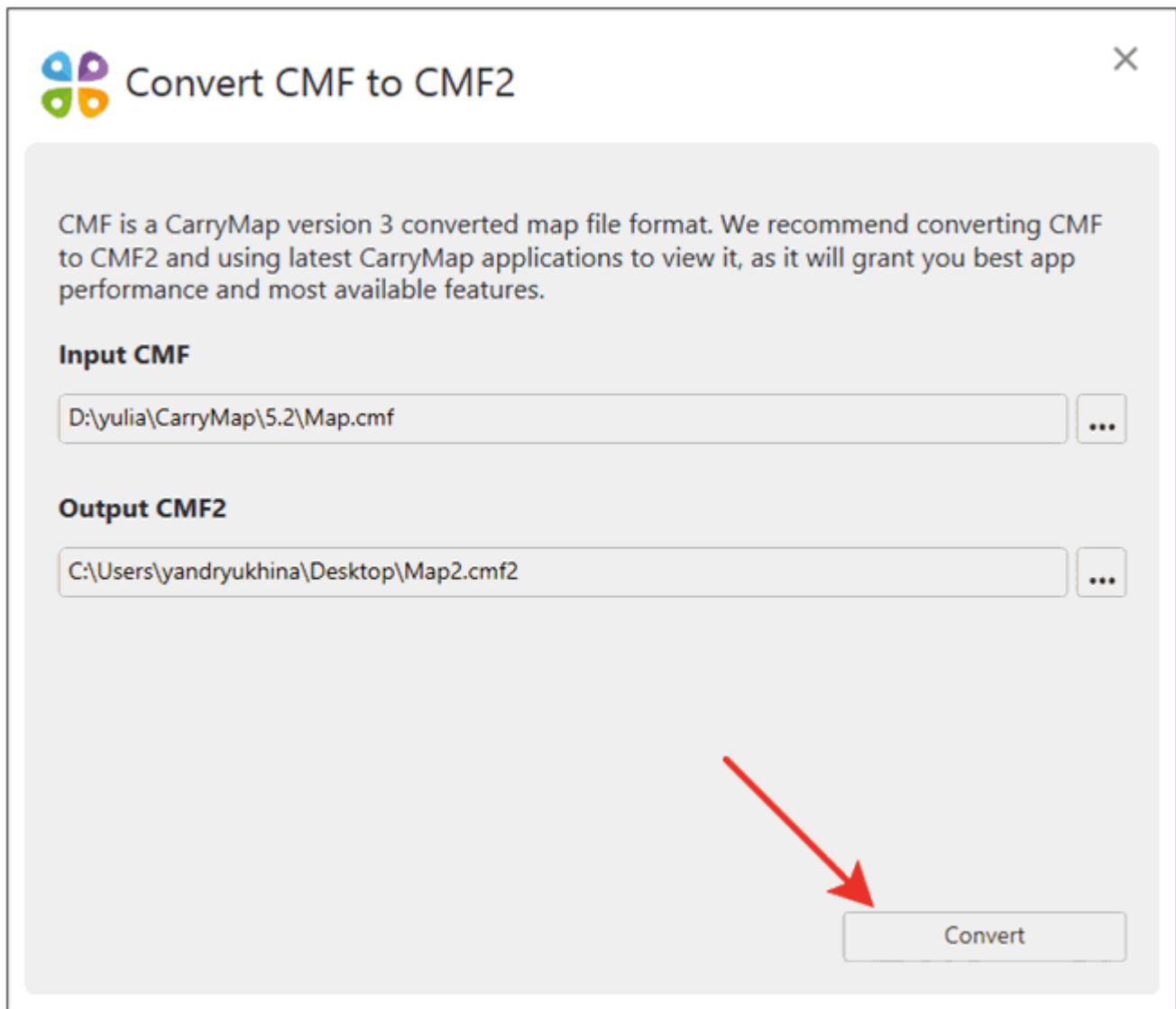
Input CMF



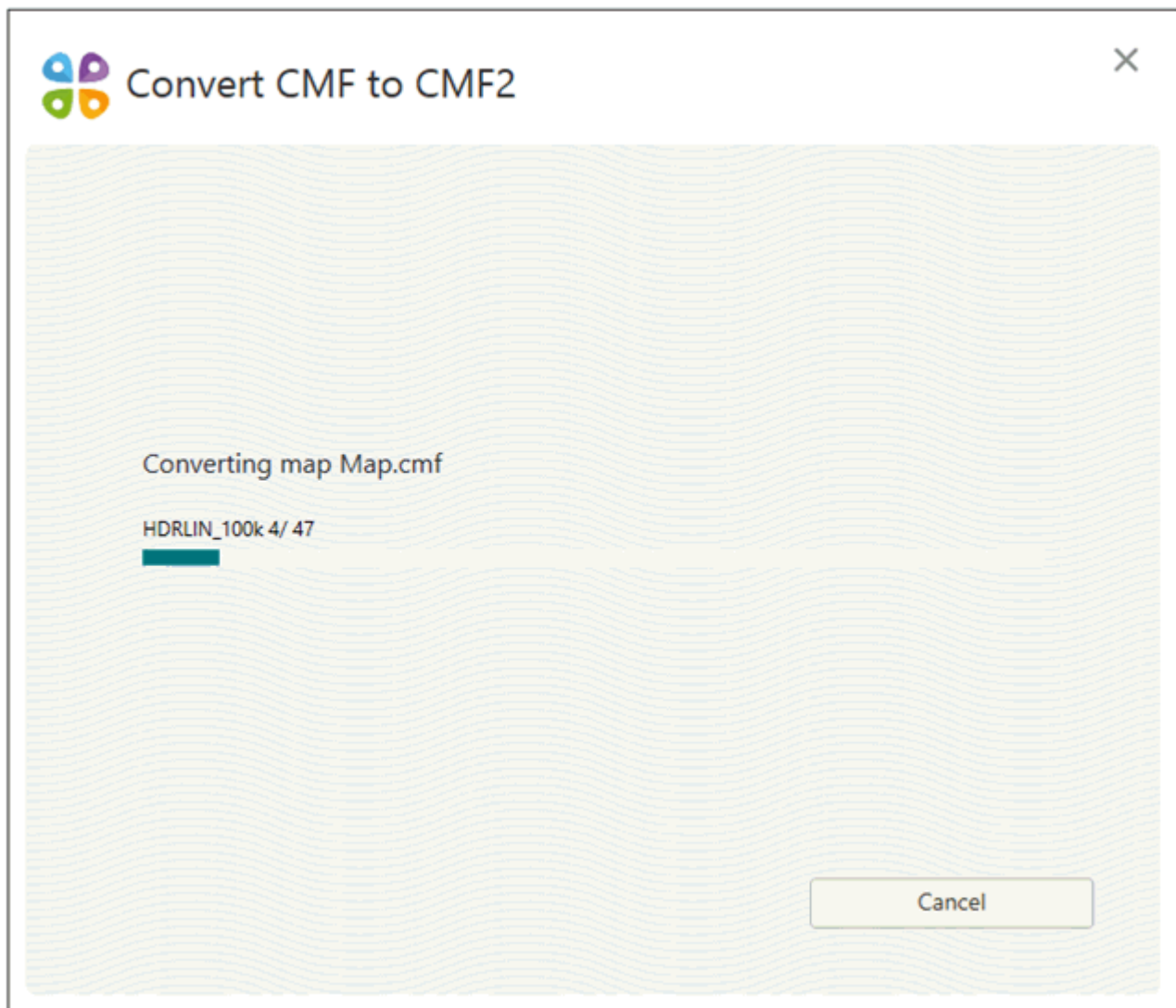
Output CMF2



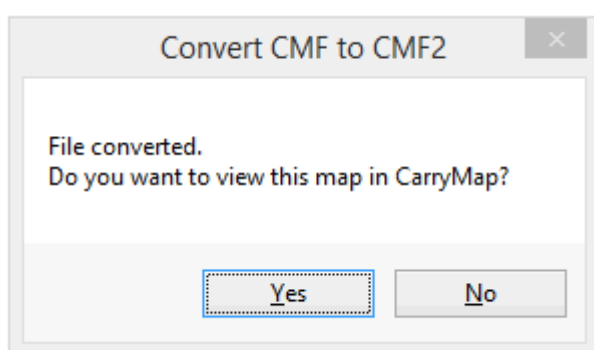
Press **Convert**.



The process of converting CMF to CMF2 will start.



Upon the process completion you will see the appropriate dialog. Press **OK** to view the output map.

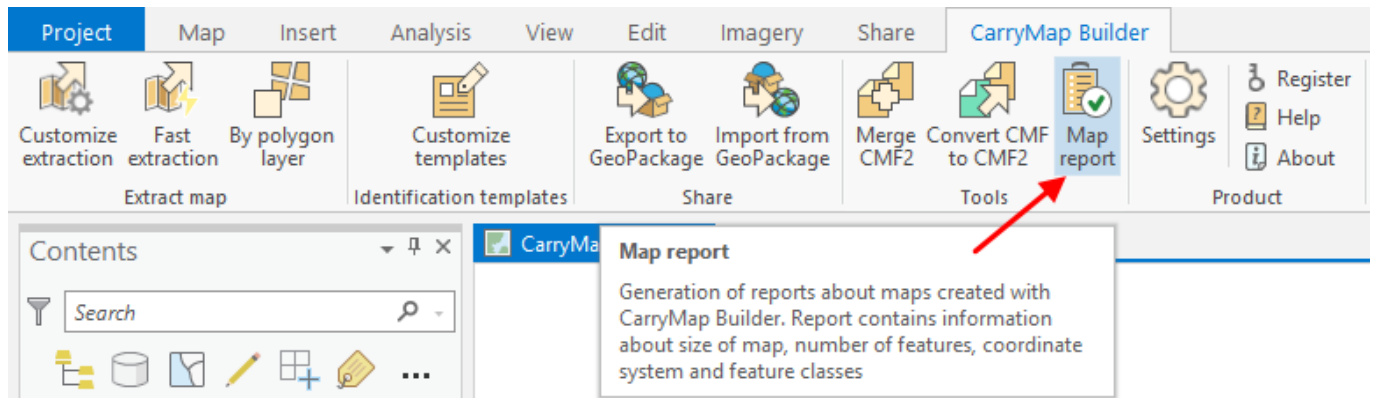


Generating map reports

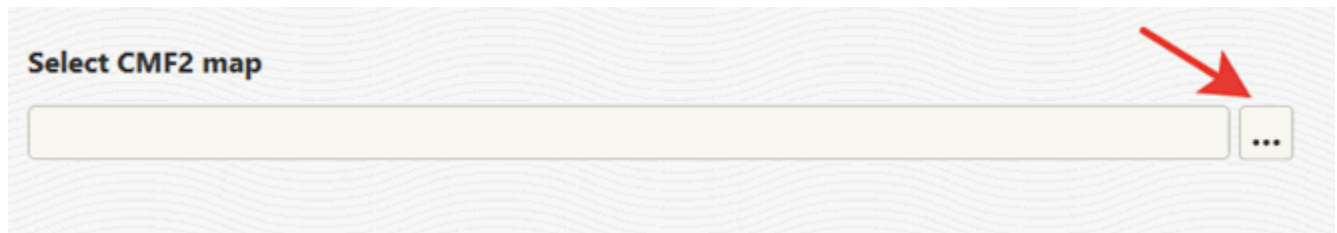
Map report tool is provided to get the following summary information about created mobile map:

- Name, size, coordinate system.
- Publisher, company name, e-mail, website.
- Map content: number of features, layers and their sizes.

To get report about the map, press **Map report** button on the **CarryMap Builder** tab.



In the appeared dialog select the required map pressing the three dots button.



The dialog with summary report about selected map will appear.



Map report



Select CMF2 map

C:\Users\yandryukhina\Desktop\Map2.cmf2



File name: Map2.cmf2

Total size: 95.19 MB

Total number of features: 653244

Map coordinate system: Pulkovo_1942_GK_Zone_7

Map info:

Map name: Московская область

Company: ООО "Дата Ист"

e-mail: info@dataeast.com

URL: www.dataeast.com

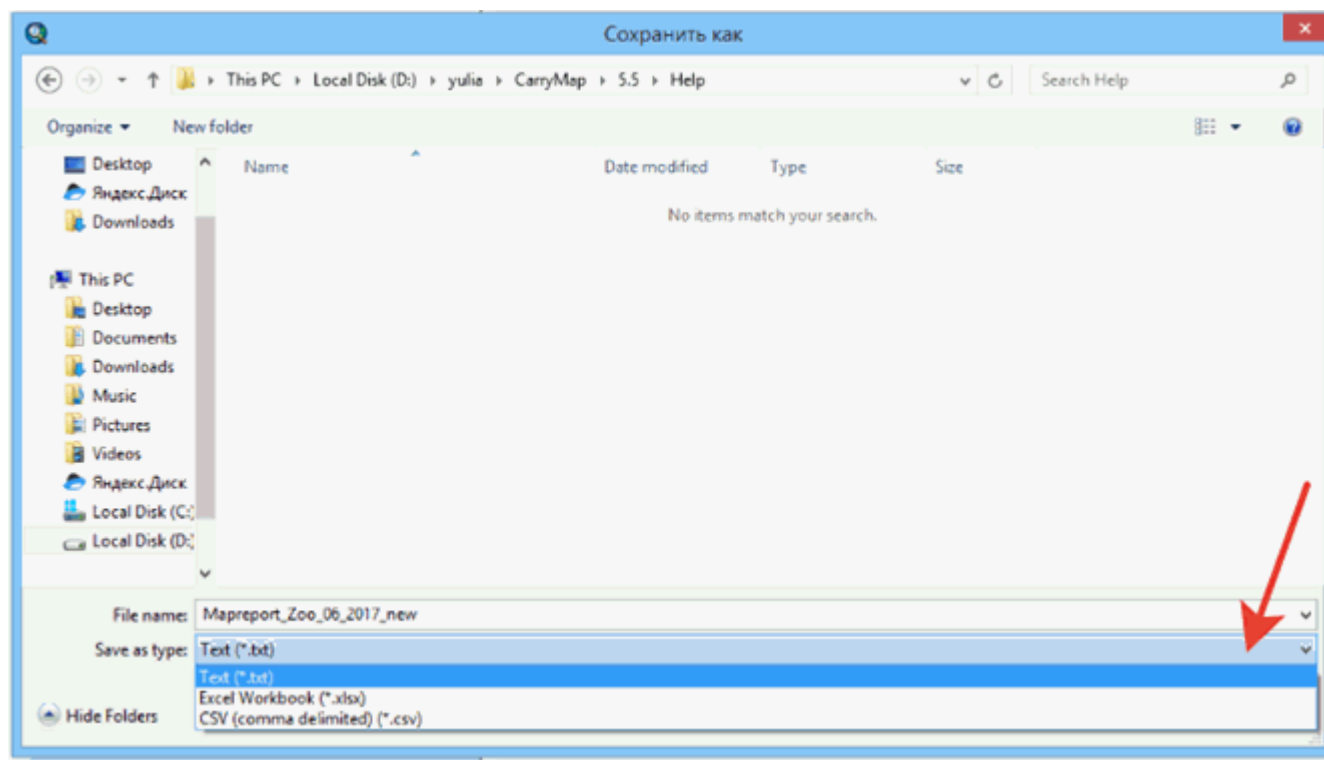
Contents	Size	Number of features
----------	------	--------------------

Feature classes

COMPNT_100k	1.51 KB	20
CSRPTNT_100k	882.97 KB	33949
VEGPNT_100k	1.35 MB	59497
FORLIN_100k	1.94 MB	34294
VEGLIN_100k	982.26 KB	11767
HDRPNT_100k	5.21 KB	166
HDTPNT_100k	14.08 KB	305
cls91190000_tit	37.96 KB	42
cls91170000_tit	7.97 MB	10005
cls91130000_tit	823.92 KB	1022
cls93130000_tit	1.83 MB	2457
cls91172000_tit	5.08 KB	4
cls91150000_tit	169.76 KB	211
cls93022000_tit	5.09 KB	4
cls93020000_tit	8.33 MB	11056
cls91070000_tit	45.95 KB	52
GNDPNT_100k	145.36 KB	7729
COMLIN_100k	242.08 KB	1724

Save As

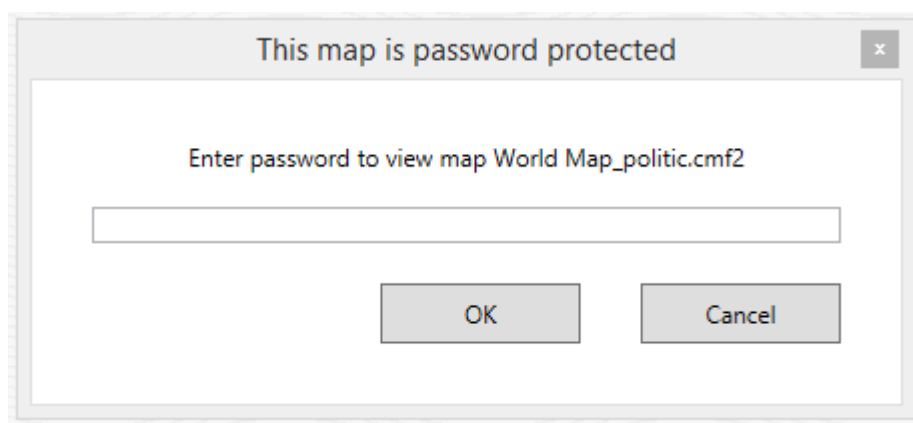
To save this report as .txt, .xlsx, or .csv file, press **Save as**, select the required format from the list and specify its location.



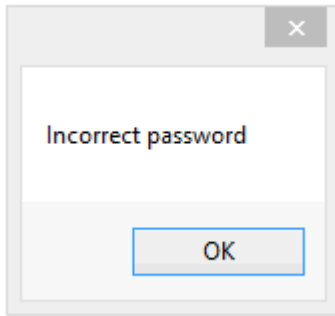
Press **Save**.

If selected map has been protected, the use of **Map report** tool will be limited as follows:

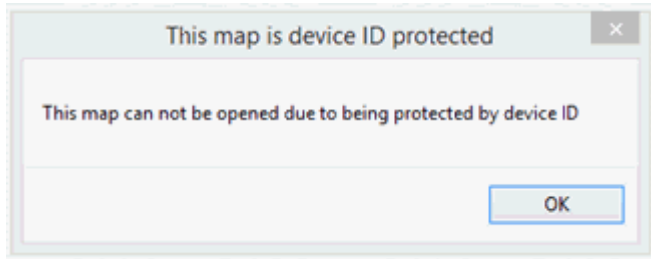
- **Map availability protection** – if map availability period has not been started yet or already finished, the tool will not work and you will see the dialog saying that this map cannot be opened due to set protection by date of use.
- **Password protection** – if map has been protected with password, you will see the dialog where to the password needs to be entered.



Enter the password and press OK. If the password is correct, the map report window will appear, otherwise you will see the following dialog:



- **Protection by device ID** – if your device has not been found in the list of authorized devices to open this map, the tool will not work and you will see the appropriate message:



General information

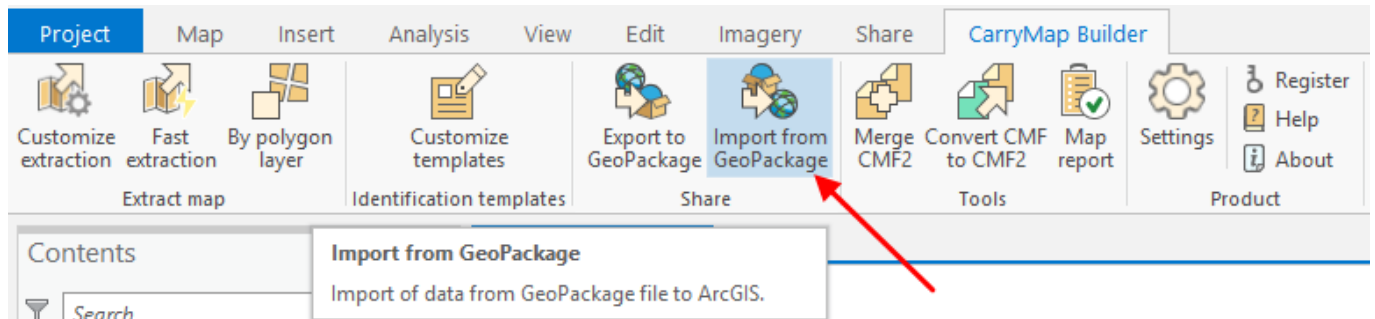
CarryMap Builder allows importing of GeoPackage files to ArcGIS Pro, as well as exporting data from ArcGIS Pro to GeoPackage format. GeoPackage is the open, non-proprietary, platform-independent and standards-based data format for geographic information system implemented as SQLite database container.

Owing to this GeoPackage export/import functionality of CarryMap Builder, the field data collected using CarryMap app can be transferred back to ArcGIS Pro.

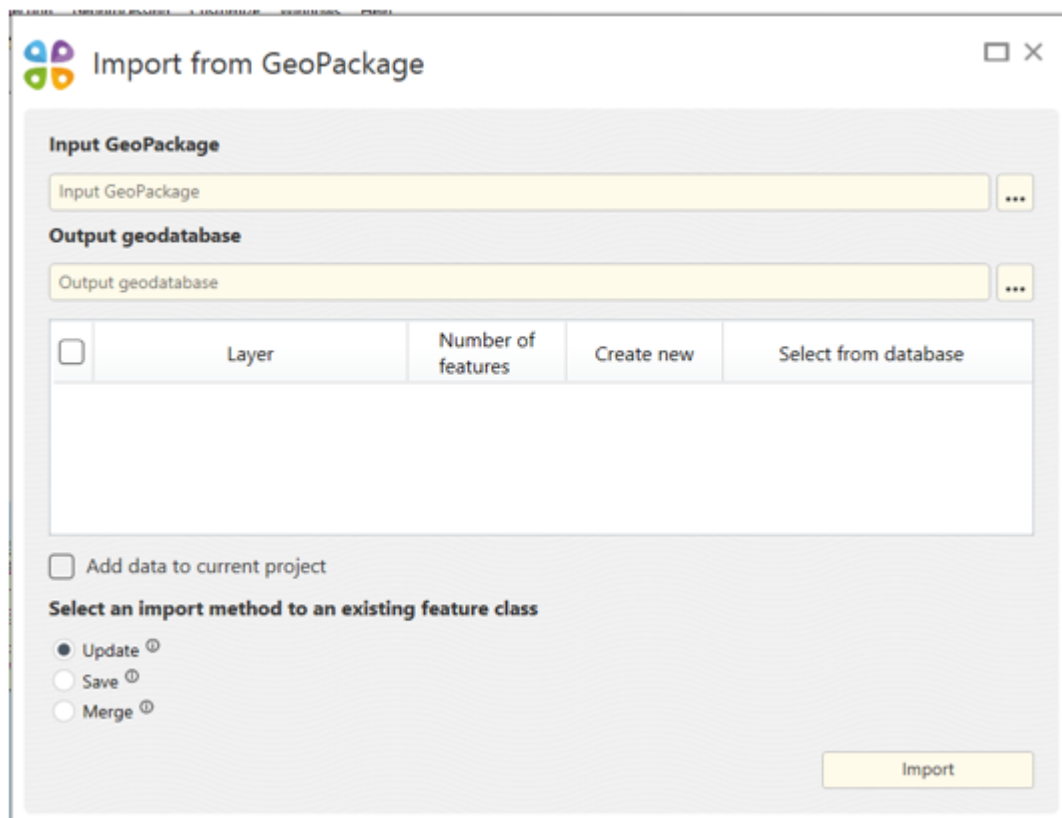
Dear users, please note that work with attachments and feature classes which options are required by importing GeoPackage files to CarryMap Builder, [is available for ArcGIS Standard or Advanced users only!](#)

Importing GeoPackage layers to ArcGIS

To import GeoPackage file to ArcGIS Pro, press **Import from GeoPackage** button on the **CarryMap Builder** tab.

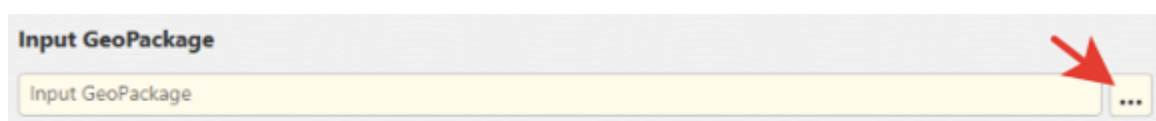


The **Import from GeoPackage** tool window will appear.



You can import GeoPackage files both to existent geodatabase with set of feature classes, or to the newly created geodatabase.

To import GeoPackage file to ArcGIS Pro, select the required GeoPackage file by pressing **Browse** button in the **Input GeoPackage** section of the tool.



Now select the output geodatabase. To do so, in the **Output geodatabase** section press **Browse** button and select the needed database.

Output geodatabase

Output geodatabase ...

Now you need to select layers for import from the input geodatabase. The selected layers will be displayed in the window.

Import from GeoPackage

Input GeoPackage: D:\yulia\CarryMap\5.6\для тестирования\CarryMap World.gpkg

Output geodatabase: C:\Users\yandryukhina\Documents\ArcGIS\Default.gdb

<input type="checkbox"/>	Layer	Number of features	Create new	Select from database
<input type="checkbox"/>	ne_10m_populated_places	1	<input type="checkbox"/>	arc_map
<input type="checkbox"/>	ne_10m_populated_places_0	47	<input type="checkbox"/>	arc_map
<input type="checkbox"/>	ne_10m_populated_places_1	503	<input type="checkbox"/>	arc_map
<input type="checkbox"/>	ne_10m_populated_places_2	213	<input type="checkbox"/>	arc_map

☐ Add data to current project

Import

Check the boxes near the layers that need to be selected.

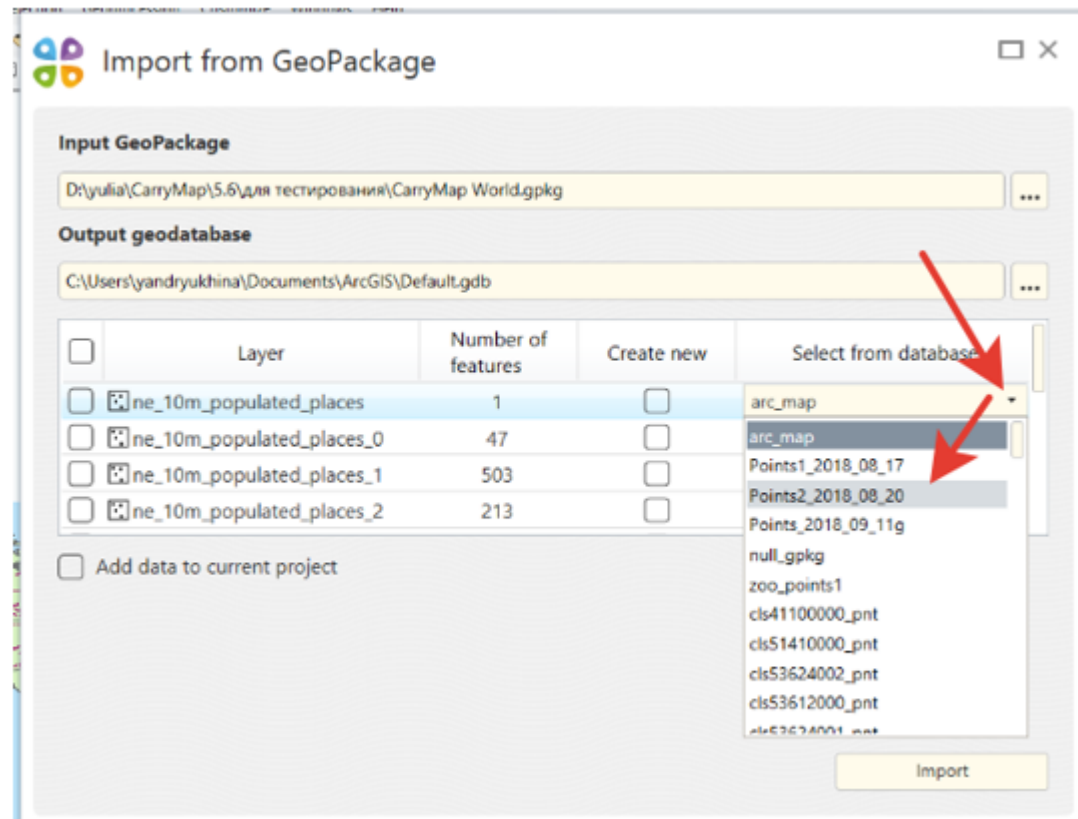
☐ ☒ ne_10m_populated_places 1 ☐

To select all layers at a time, check **Select all** option.

<input type="checkbox"/>	Layer	Number of features	Create new
<input type="checkbox"/>	ne_10m_populated_places	1	<input type="checkbox"/>
<input type="checkbox"/>	ne_10m_populated_places_0	47	<input type="checkbox"/>
<input type="checkbox"/>	ne_10m_populated_places_1	503	<input type="checkbox"/>
<input type="checkbox"/>	ne_10m_populated_places_2	213	<input type="checkbox"/>

Now select feature classes for importing layers from the output geodatabase or create the new feature classes.

To import layer to the previously created feature class in the geodatabase, check the box near the layer and select the required feature class from the dropdown list.



Selected feature class will be shown in the layer string.

<input type="checkbox"/>	Layer	Number of features	Create new	Select from database
<input type="checkbox"/>	ne_10m_populated_places	1	<input type="checkbox"/>	Points2_2018_08_20
<input type="checkbox"/>	ne_10m_populated_places_0	47	<input type="checkbox"/>	arc_map
<input type="checkbox"/>	ne_10m_populated_places_1	503	<input type="checkbox"/>	arc_map
<input type="checkbox"/>	ne_10m_populated_places_2	213	<input type="checkbox"/>	arc_map

Dear users, please note that attribute table of the output feature classes, where to import will be done, will be changed according to the attribute table of the imported GeoPackage files.

To import GeoPackage layer to the new feature class, check the box near this layer.

<input type="checkbox"/>	Layer	Number of features	Create new	Select from database
<input type="checkbox"/>	ne_10m_populated_places	1	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	ne_10m_populated_places_0	47	<input type="checkbox"/>	arc_map
<input type="checkbox"/>	ne_10m_populated_places_1	503	<input type="checkbox"/>	arc_map
<input type="checkbox"/>	ne_10m_populated_places_2	213	<input type="checkbox"/>	arc_map

Feature class with the name of the GeoPackage layer will be saved in the geodatabase. To add imported data to your current map of ArcGIS Pro project, check

☐ Add data to current project option.

By importing to the existent feature class, one the following importing methods can be used:

- **update** – only changed features are imported. By using this method the imported GeoPackage data must have completed GlobalID field and enabled [Editor Tracking mode](#) for the Modification date field.
- **save** – all features are imported and source features in the output GeoPackage file are deleted.
- **merge** – all features are imported and source features in the output GeoPackage file are saved.

By default the **update** method is used for importing GeoPackage files.

To change the importing method, check the box near the needed method.

Import from GeoPackage

Input GeoPackage: D:\yulia\CarryMap\5.6\для тестирования\CarryMap World.gpkg

Output geodatabase: Output geodatabase

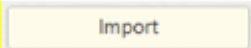
<input type="checkbox"/>	Layer	Number of features	Create new	Select from database
<input type="checkbox"/>	ne_10m_populated_places	1	<input type="checkbox"/>	
<input type="checkbox"/>	ne_10m_populated_places_0	47	<input type="checkbox"/>	
<input type="checkbox"/>	ne_10m_populated_places_1	503	<input type="checkbox"/>	
<input type="checkbox"/>	ne_10m_populated_places_2	213	<input type="checkbox"/>	

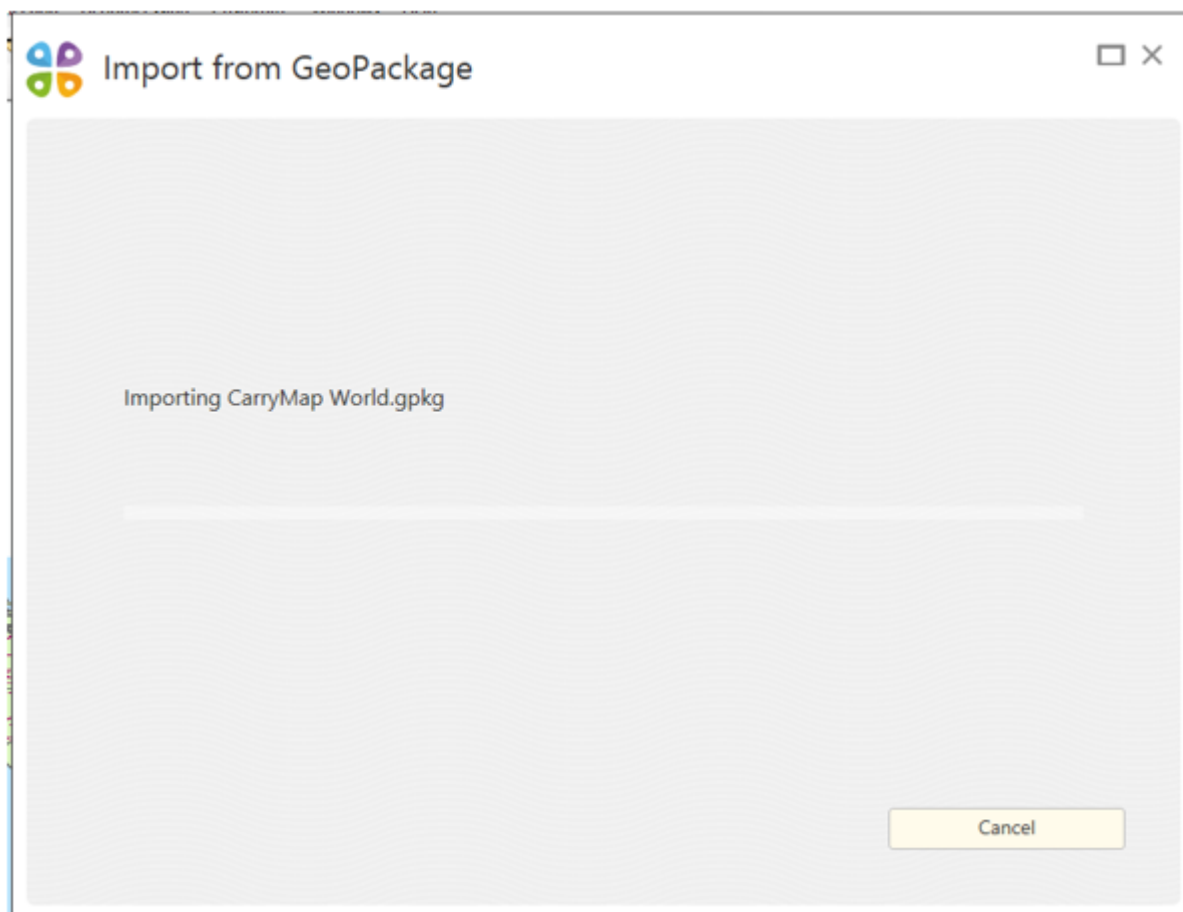
☐ Add data to current project

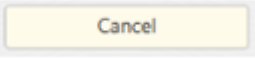
Select an import method to an existing feature class

☒ Update ⓘ
☐ Save ⓘ
☐ Merge ⓘ

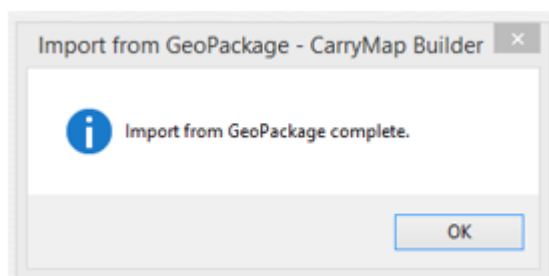
Import

After making all importing settings press  button. The Import from GeoPackage window will appear.



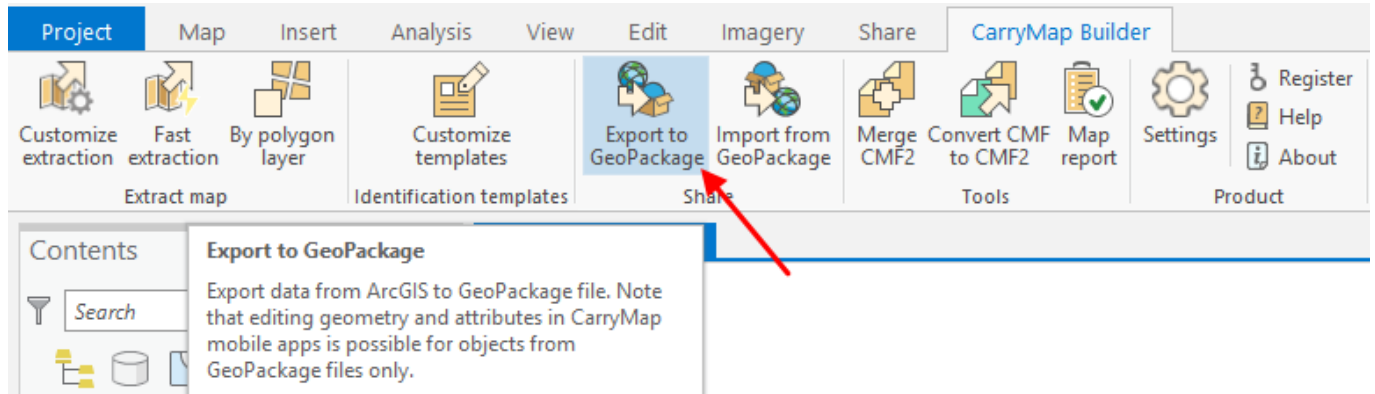
To cancel importing process, press  button.

Upon import completion, the following window will appear.

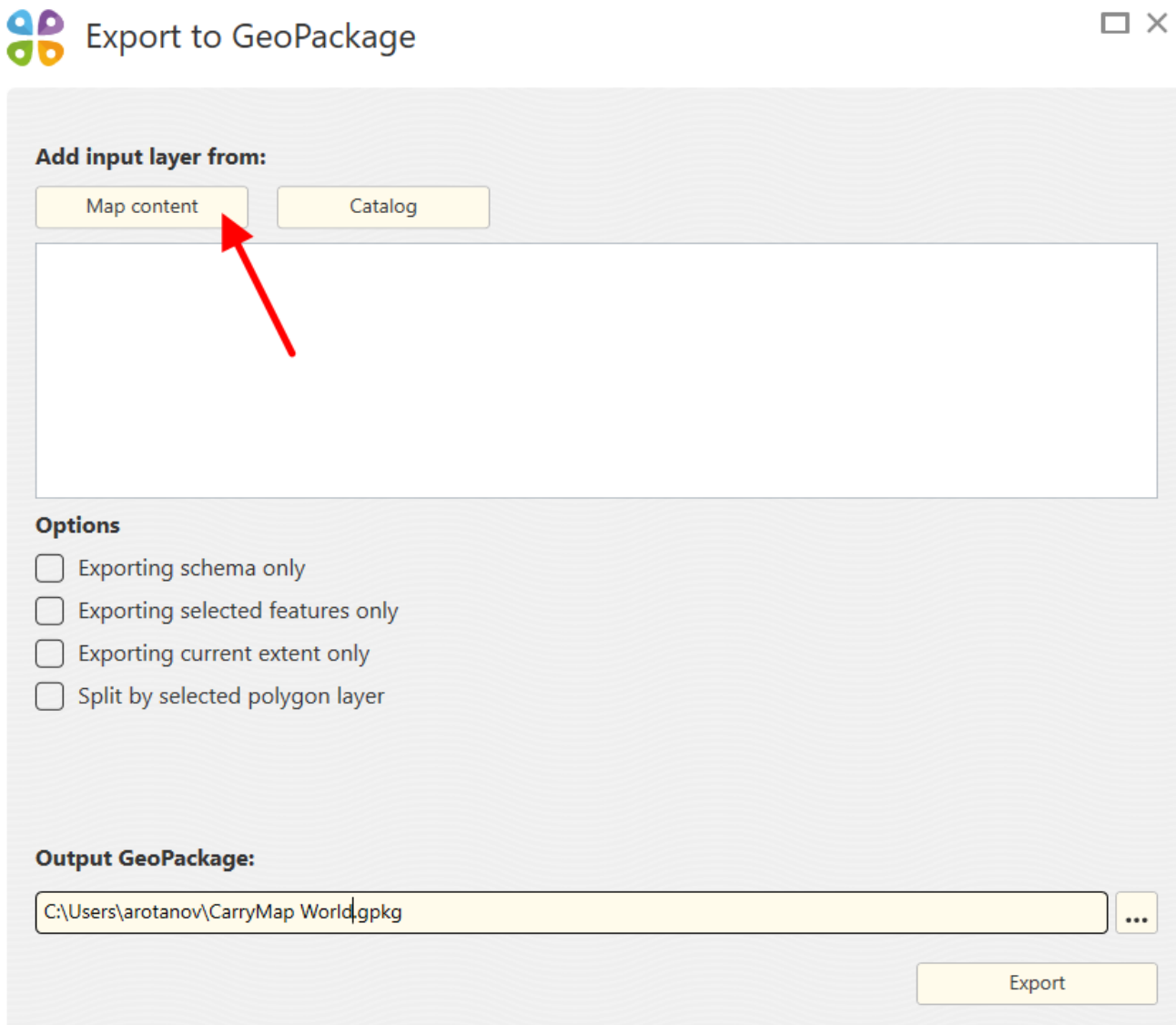


Exporting from ArcGIS to GeoPackage

To export layers from your ArcGIS Pro project to GeoPackage format, press **Export to GeoPackage** on the **CarryMap Builder** tab.



In the appeared tool dialog select layers that need to be exported. To select data from your current ArcGIS Pro project, press **Map content**.



From the list of ArcGIS Pro layers select those you want to export. Selected layers will be shown in the dialog.



Export to GeoPackage



Add input layer from:

Map content

Catalog

- ☒ 10m-populated-places adm0 caps
- ☒ 10m-populated-places adm1 caps
- ☒ 10m-populated-places

Options

- ☐ Exporting schema only
- ☐ Exporting selected features only
- ☐ Exporting current extent only
- ☐ Split by selected polygon layer

Output GeoPackage:

C:\Users\arotnov\CarryMap World.gpkg




Export

To add layer from ArcGIS Pro catalog, press **Catalog**.

Add input layer from:

Map content Catalog



Options

☐ Exporting schema only

☐ Exporting selected features only

☐ Exporting current extent only

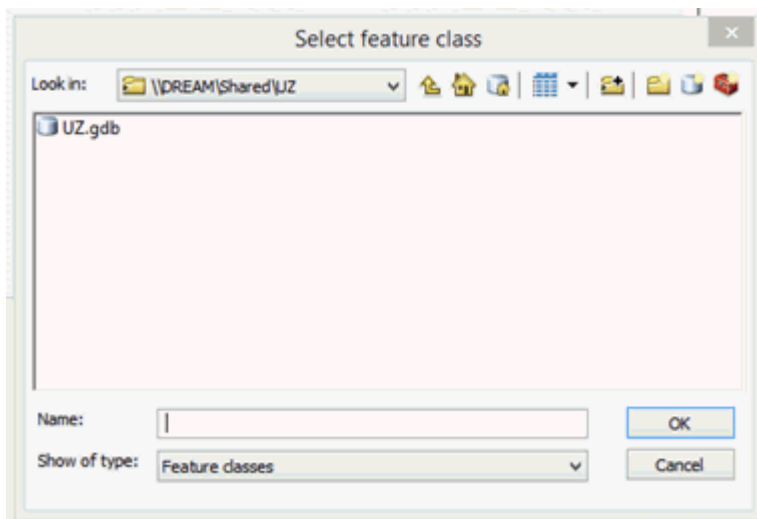
☐ Split by selected polygon layer

Output GeoPackage:

C:\Users\arotanol\CarryMap World\gpkg ...

Export

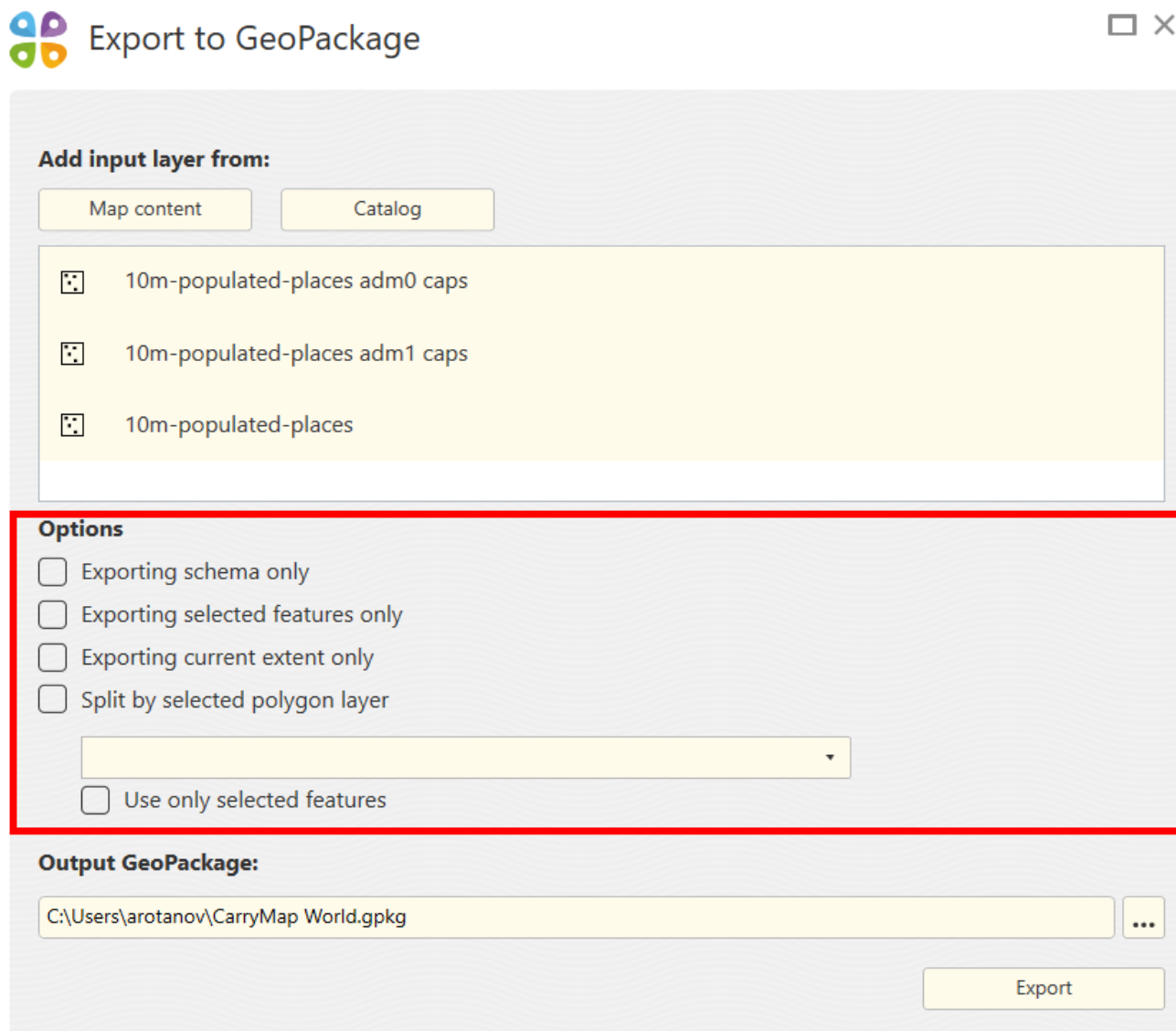
In the appeared dialog select layers for export.



Note that you can apply both export options at a time, i.e. to select export from current map and from catalog.

By default, all features of selected layer will be exported, but you can specify the following options if needed:

- *Exporting schema only* – only fields from attribute table will be exported to output GeoPackage file.
- *Exporting current extent only* – only features and fields with attributes will be exported to output GeoPackage file.
- *Exporting selected features only* - only features selected on map and fields with attributes will be exported to output GeoPackage file.
- *Split by selected polygon layer* - multiple GeoPackage files will be created along the boundaries of the features of the selected polygon layer.



Export to GeoPackage

Add input layer from:

Map content Catalog

- 10m-populated-places adm0 caps
- 10m-populated-places adm1 caps
- 10m-populated-places

Options

- ☐ Exporting schema only
- ☐ Exporting selected features only
- ☐ Exporting current extent only
- ☐ Split by selected polygon layer

Use only selected features

Output GeoPackage:

C:\Users\arotnov\CarryMap World.gpkg

Export

To perform export by specific polygon features only, you need to preliminary select these features on your map with the **Select features** tool in ArcGIS Pro. Select the separation layer where you selected features and check the **Use only selected features** option.

☒ Use only selected features

To delete layer from the list of layers selected for export, press the cross icon near the required layer and it will be deleted.

Add input layer from:

Map content Catalog

10m-populated-places adm0 caps

10m-populated-places adm0 caps

10m-populated-places

Options

☐ Exporting schema only

☐ Exporting selected features only

☐ Exporting current extent only

☐ Split by selected polygon layer

Output GeoPackage:

C:\Users\arotnov\CarryMap World.gpkg

Export

To specify name and location of the output GeoPackage file, press three dots button in the **Output GeoPackage** section.

Output GeoPackage:

D:\yulia\CarryMap\From_Nikita_for_CM4\CarryMap World.gpkg

To start export to GeoPackage process, press **Export**.




Export to GeoPackage



Add input layer from:

Map content

Catalog

-  10m-populated-places adm0 caps
-  10m-populated-places adm1 caps
-  10m-populated-places

Options

- ☐ Exporting schema only
- ☐ Exporting selected features only
- ☐ Exporting current extent only
- ☐ Split by selected polygon layer

Output GeoPackage:

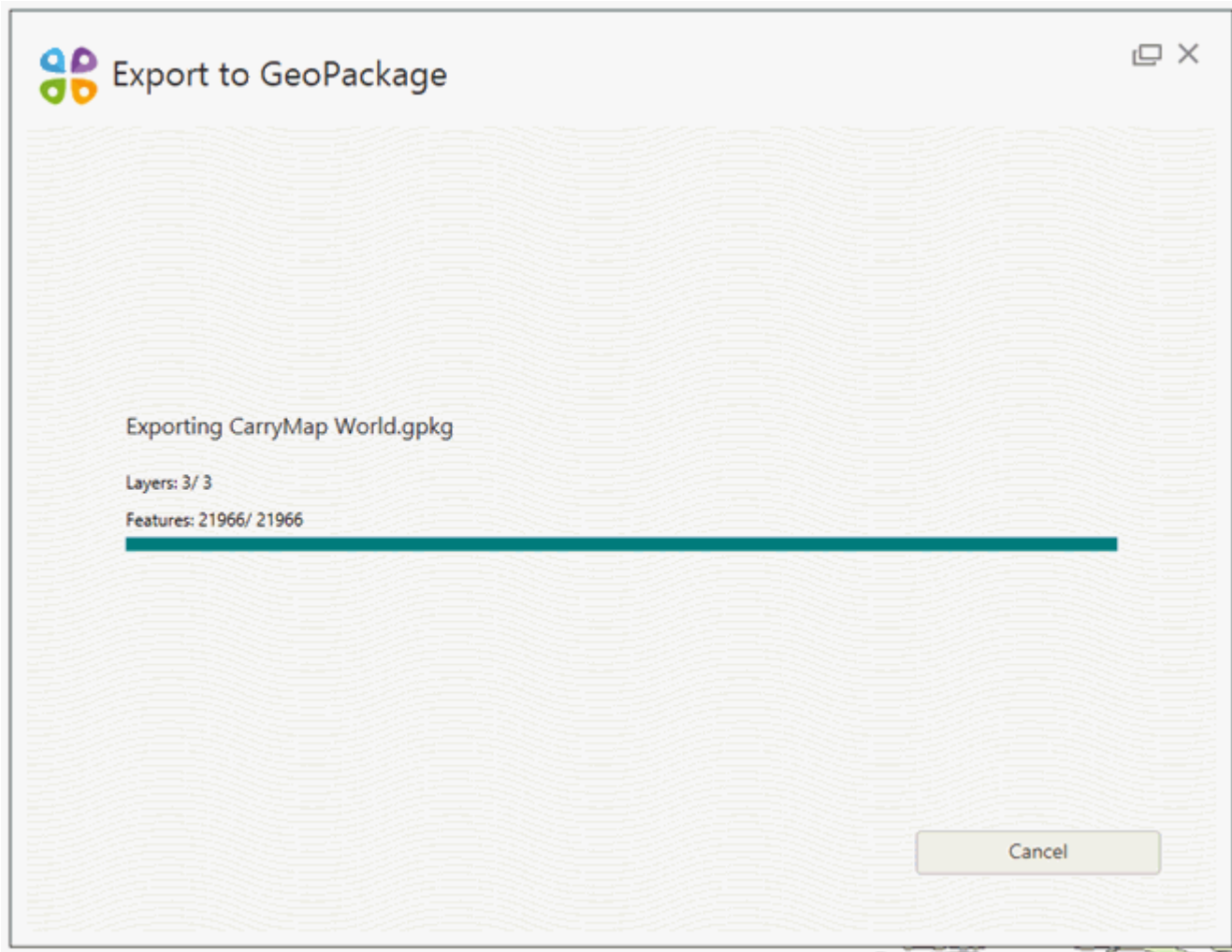
C:\Users\arotnov\CarryMap World.gpkg



Export

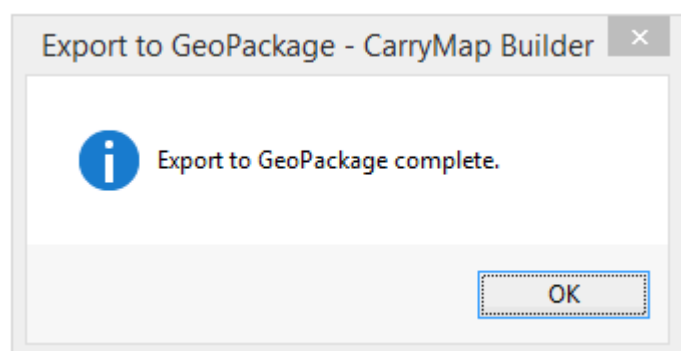


The dialog showing the progress bar of export to GeoPackage process will appear.



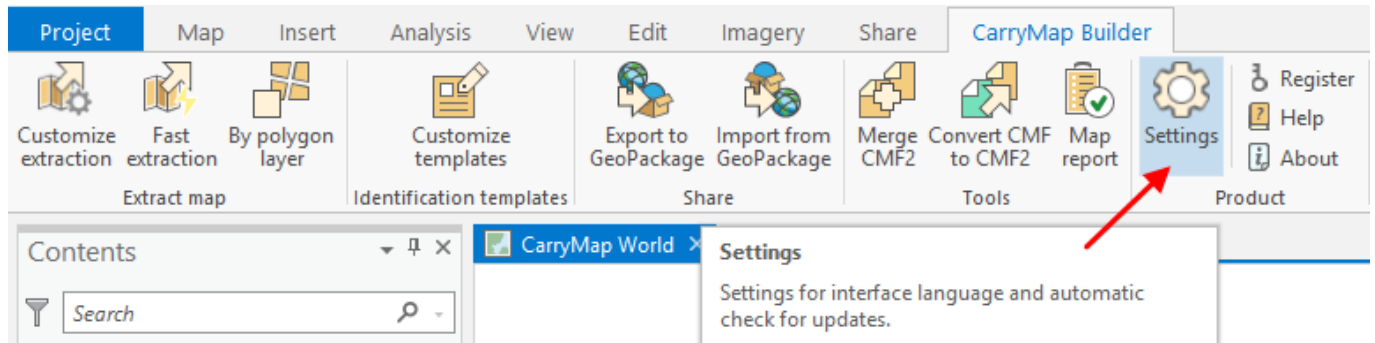
To cancel exporting process, press **Cancel**.

Upon the process completion you will see the appropriate dialog.

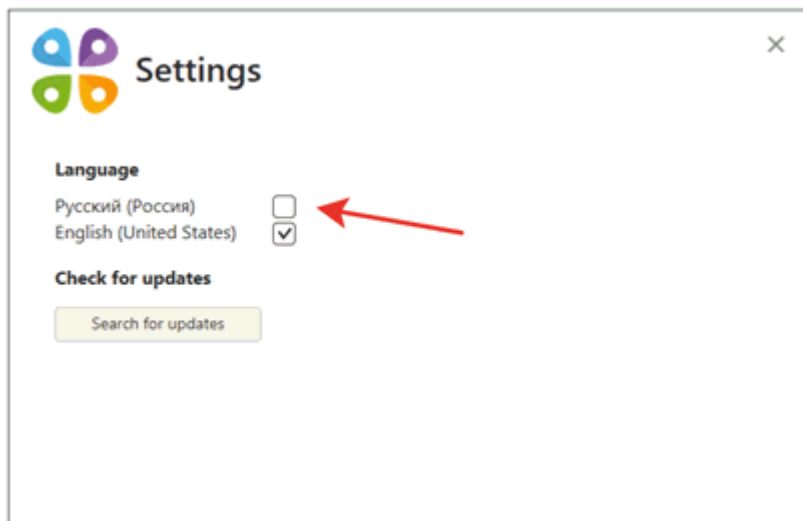


Setting CarryMap Builder

You can change language settings for CarryMap Builder interface, as well as check for availability of recently released CarryMap Builder updates. To do so, press **Setting** on the **CarryMap Builder** tab.

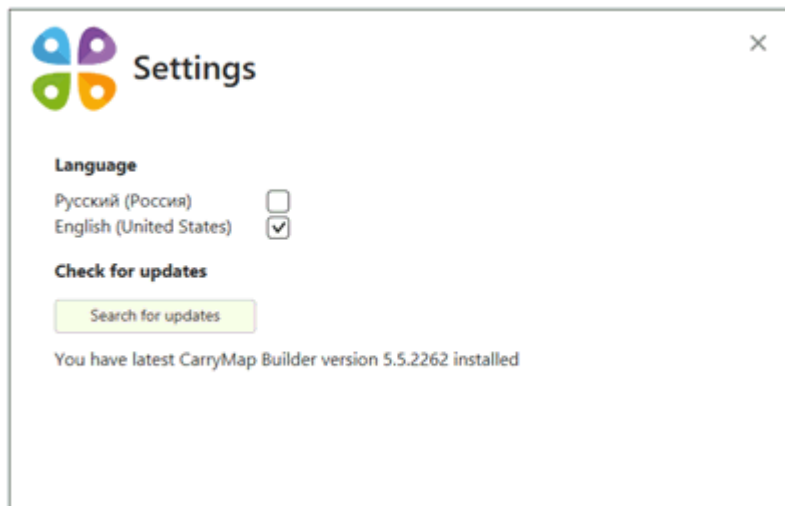


To change interface language settings, check the appropriate language as shown below.



The interface language will be changed accordingly.

To check for availability of CarryMap Builder updates, press **Search for updates**. If you have the most recent CarryMap Builder version installed, you will see the following dialog:



If you have one of the previous CarryMap Builder versions installed, you will see the appropriate dialog, where you can press **Download update** to install the most recent version.

Support

Learn more about CarryMap at builder.carrymap.com

If you have any questions or comments regarding the CarryMap Builder use, contact us at support@dataeast.com.