

# Field types of custom attributes

At several places in MXSuite custom attributes are used to populate data. Each field type has its own behavior. Below is the overview with all field types and explanations.

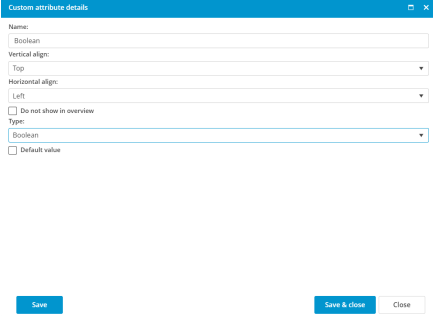
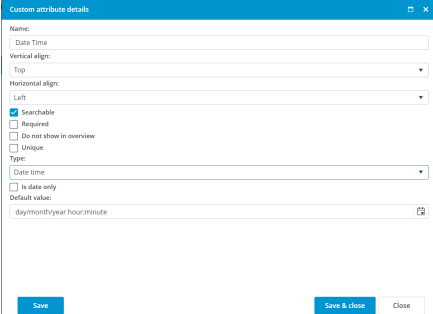
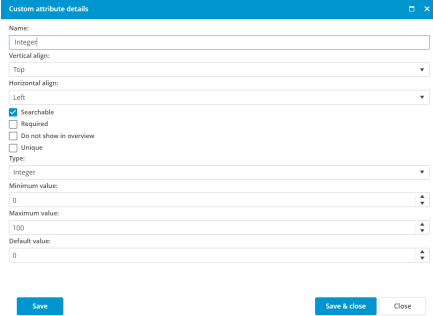
An example of a form with all field types:

The screenshot shows a window titled 'Edit Form' with a blue header. The form contains several fields:
 

- Boolean:** A checked checkbox labeled 'Boolean'.
- Date Time:** A text input field with a date-time format mask: 'day/month/year hour:minute' and a calendar icon.
- Image:** A large empty area with the text 'No file selected.' and a file selection icon.
- Integer:** A text input field with a vertical spinner.
- Lookup:** A dropdown menu.
- Text:** A text input field.
- File:** A text input field with the text 'No file selected.' and a file selection icon.
- System lookup:** A dropdown menu with a search icon and a close icon.
- Log Book:** A text input field with a checkmark icon.
- GPS location:** A grid of four dropdown menus for latitude and longitude, with a 'Use current' button below.

 At the bottom, there are three buttons: 'Save', 'Save & close', and 'Close'.

Type	Description	Image
AUTO NUMBER	<p>This is an automatically generated sequential number. It can be used for example to have a unique numbering for created documents.</p> <p><b>Configuration options:</b></p> <ul style="list-style-type: none"> <li>• <b>Prefix:</b> Here a prefix for the number can be set. For example to distinguish documents created by the office from the ones created by the vessels.:               <ul style="list-style-type: none"> <li>○ ABC-1</li> <li>○ ABC-2</li> <li>○ OFF-3</li> <li>○ OFF-4</li> </ul> </li> <li>• <b>Start number:</b> the first number the sequential number should start with.</li> </ul>	<p>The screenshot shows a window titled 'Custom attribute details' with a blue header. The form contains:         <ul style="list-style-type: none"> <li><b>Name:</b> A text input field with 'Auto Number' entered.</li> <li><b>Vertical align:</b> A dropdown menu with 'Top' selected.</li> <li><b>Horizontal align:</b> A dropdown menu.</li> <li><b>Editable:</b> A checked checkbox.</li> <li><b>Do not show in overview:</b> An unchecked checkbox.</li> <li><b>Unique:</b> An unchecked checkbox.</li> <li><b>Type:</b> A dropdown menu with 'Auto number' selected.</li> <li><b>Prefix:</b> A text input field.</li> <li><b>Start number:</b> A text input field with a 'Location prefixes' button to its right.</li> <li><b>Start number:</b> A spinner control.</li> </ul>         At the bottom, there are three buttons: 'Save', 'Save &amp; close', and 'Close'.       </p>

<p>BOOLEAN</p>	<p>This is a yes/no tickbox.</p> <p><b>Configuration options:</b></p> <ul style="list-style-type: none"> <li>• Default value: to have the tickbox by default enabled or disabled.</li> </ul>	
<p>DATE TIME</p>	<p>This is a field where the date can be filled or chosen from a calendar. Also can be defined if the field should contain only the date or the time as well.</p> <p><b>Configuration options:</b></p> <ul style="list-style-type: none"> <li>• Is date only: when selected only the date can be filled. If not selected also the time can be given.</li> <li>• Default value: a default date (and time) can be given.</li> </ul>	
<p>DOUBLE and INTEGER</p>	<p>This is a numeric field. The difference between a <i>double</i> and an <i>integer</i>:</p> <ul style="list-style-type: none"> <li>• A <i>double</i> is a numeric value with decimals, like 123,45</li> <li>• An <i>integer</i> is a numeric value without decimals, like 123</li> </ul> <p><b>Configuration options:</b></p> <ul style="list-style-type: none"> <li>• Minimum value: fill here the minimum allowed value.</li> <li>• Maximum value: fill here the maximum allowed value.</li> <li>• Default value: a default value can be given here.</li> </ul>	

# LOOKUP and SYSTEM LOOKUP

A lookup is a list with predefined selections. The difference between a *lookup* and a *system lookup*:

- A *lookup* is a list that can be defined by the user in Administration > Lookups.
- A *system lookup* is a predefined list with values or a list that is managed anywhere else in MXSuite. For example the list with users or the list with countries.

### Configuration options:

- Lookup type as configured in Administration > Lookups or one of the system lookups.
- Default value: a default selection can be made here.

The screenshot shows the 'Custom attribute details' dialog for a 'System Lookup'. The 'Name' field is 'System Lookup'. The 'Vertical align' is set to 'Top' and 'Horizontal align' is 'Left'. The 'Searchable' checkbox is checked. Other options include 'Required', 'Do not show in overview', and 'Unique', all of which are unchecked. The 'Type' is 'System lookup'. The 'Lookup' field is empty, 'Country' is 'Country', and 'Lookup view' is 'Countries'. The 'Default value' field is empty. At the bottom, there are 'Save', 'Save & close', and 'Close' buttons.

# TEXT

A text field is a field where a free text can be entered.

### Configuration options:

- Multiline: if enabled the text field will be shown with 3 lines. If disabled, the field has a height of one line.
- Maximum length: the maximum number of characters that can be filled in the text field.
- Default value: a default text can be given here.

The screenshot shows the 'Custom attribute details' dialog for a 'Text' field. The 'Name' field is 'Text'. The 'Vertical align' is set to 'Top' and 'Horizontal align' is 'Left'. The 'Searchable' checkbox is checked. Other options include 'Required', 'Do not show in overview', and 'Unique', all of which are unchecked. The 'Type' is 'Text'. The 'Multiline' checkbox is unchecked. The 'Maximum length' is set to '2,000'. The 'Default value' field is empty. At the bottom, there are 'Save', 'Save & close', and 'Close' buttons.

## LOGBOOK

A logbook is an extended version of a text field. Every new entry will be saved with username and date and time.

### Configuration options:

- Multiline: if enabled the text field will be shown with 3 lines. If disabled, the field has a height of one line.
- Users can edit their own logs: allow the user to change the text he typed afterwards.
- Use edit rights: editing the logbook depends on the user rights of the current user.
- Default value: a default text can be given here.

The screenshot shows the 'Custom attribute details' dialog for a 'Log book' attribute. The 'Name' field is 'Log book'. The 'Vertical align' is set to 'Top'. The 'Horizontal align' is set to 'Left'. The 'Required' checkbox is unchecked. The 'Type' is 'Log book'. The 'Multiline' checkbox is checked. The 'User can edit own logs' checkbox is checked. The 'Use edit rights' checkbox is unchecked. The 'Default value' field contains 'Log book'. At the bottom, there are three buttons: 'Save', 'Save & close', and 'Close'.

## IMAGE

and  
FILE

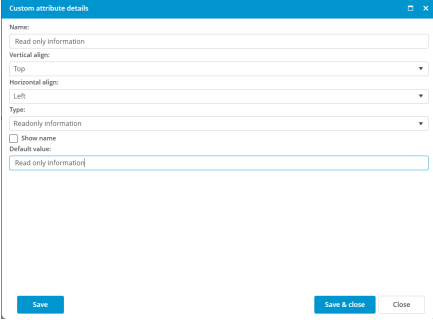
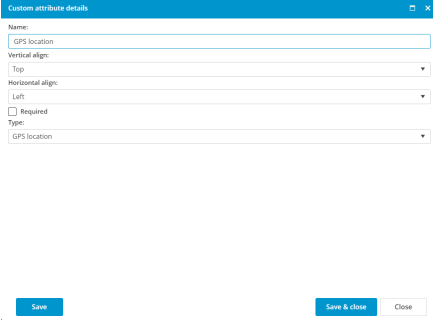
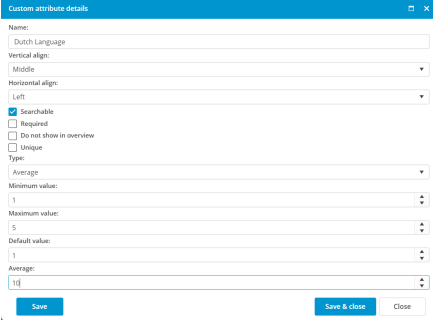
An image or a file can be used to save an attachment to MXSuite.

- For an *image* only known extensions are allowed: .bmp .jpg .gif .png .svg .tiff .dds .wdp .emf .ico .wmf
- For a *file* all extensions can be saved.

### Configuration options:

- Maximum file size: fill here the maximum attachment size in bytes.
  - 1 MB = 1.048.576 bytes
  - 5 MB = 5.242.880 bytes
  - 10 MB = 10.485.760 bytes
  - 50 MB = 52.428.800 bytes

The screenshot shows the 'Custom attribute details' dialog for a 'File' attribute. The 'Name' field is 'File'. The 'Vertical align' is set to 'Top'. The 'Horizontal align' is set to 'Left'. The 'Required' checkbox is unchecked. The 'Do not show in overview' checkbox is unchecked. The 'Type' is 'File'. The 'Maximum size' field is set to '100000000'. At the bottom, there are three buttons: 'Save', 'Save & close', and 'Close'.

<p>READ ONLY</p>	<p>Read-only information is used to show a text in the form or page, which is helpful for the user.</p> <p><b>Configuration options:</b></p> <ul style="list-style-type: none"> <li>• Show name: if enabled, the name (first field in the picture) is also shown on the form or page.</li> <li>• Default value: type here the text that should be shown on the form or page.</li> </ul>	 <p>The screenshot shows the configuration interface for a 'Read only information' attribute. It includes fields for Name, Vertical align (Top), Horizontal align (Left), Type (Readonly information), and a checkbox for 'Show name'. A 'Default value' field contains the text 'Read only information'. Buttons for 'Save', 'Save &amp; Close', and 'Close' are at the bottom.</p>
<p>GPS</p>	<p>With a GPS field, the exact position can be saved in Degrees, Minutes and Seconds.</p> <p><b>Configuration options:</b></p> <ul style="list-style-type: none"> <li>• none</li> </ul>	 <p>The screenshot shows the configuration interface for a 'GPS location' attribute. It includes fields for Name, Vertical align (Top), Horizontal align (Left), Type (GPS location), and a checkbox for 'Required'. Buttons for 'Save', 'Save &amp; Close', and 'Close' are at the bottom.</p>
<p>AVERAGE</p>	<p>In the field <i>Average</i>, you can add a numeric value including decimals. For each average attribute, you can decide how much the score will adjust the overall score. The total value of all average fields should be in total 100.</p> <p><b>Configuration options:</b></p> <ul style="list-style-type: none"> <li>• Minimum value: fill here the minimum allowed value.</li> <li>• Maximum value: fill here the maximum allowed value.</li> <li>• Default value: a default value can be given here.</li> <li>• Average: the weight of this field. The total value of all average fields in the form or page should be 100.</li> </ul>	 <p>The screenshot shows the configuration interface for a 'Dutch Language' attribute. It includes fields for Name, Vertical align (Middle), Horizontal align (Left), Type (Average), Minimum value (1), Maximum value (5), Default value (1), and Average (10). Checkboxes for 'Searchable', 'Required', 'Do not show in overview', and 'Unique' are present. Buttons for 'Save', 'Save &amp; Close', and 'Close' are at the bottom.</p>

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