



Appendix C

This appendix contains the following sections:

- [Form Field Types, on page 1](#)

Form Field Types

This appendix provides a list of form field types that is used to define the type of form fields during form creation in an open automation module. For defining a form field, it is mandatory to provide the label and type of the form field.

1. FIELD_TYPE_TEXT

The FIELD_TYPE_TEXT defines a field as text field. It is the default field type. If the field type is not defined for a form field annotation, the form field is categorized as text type by default.

Attributes

- **maxLength**—Specify the maximum number of character allowed in a text field.
- **Size**—Set the size of the text field using one of the following values:
 - FIELD_SIZE_SMALL
 - FIELD_SIZE_MEDIUM
 - FIELD_SIZE_LARGE
 - FIELD_SIZE_MEDIUM_SMALL
 - FIELD_SIZE_LARGE_SMALL
 - FIELD_SIZE_SMALL_MEDIUM
 - FIELD_SIZE_LARGE_MEDIUM
 - FIELD_SIZE_SMALL_LARGE
 - FIELD_SIZE_MEDIUM_LARGE

Sample

```
@FormField(label = "Name", help = "Name",
size =FormFieldDefinition.FIELD_SIZE_SMALL)
private String name;
```

2. FIELD_TYPE_NUMBER

The FIELD_TYPE_NUMBER defines that a field should contain a numeric value.

Attributes

- **minValue**—Specify the minimum acceptable value for the numeric field. For example, 1.
- **maxValue**—Specify the maximum acceptable value for the numeric field. For example, 65535.

Sample

```
@FormField(label = "FIELD_TYPE_NUMBER",
type = FormFieldDefinition.FIELD_TYPE_NUMBER, minValue = 1, maxValue = 65535)
private int number;
```

3. FIELD_TYPE_TABULAR

The FIELD_TYPE_TABULAR defines a field as a table.

Attributes

- **table**—Specify a name for the tabular field.
- **multiline**—This attribute is boolean type. Set as true to allow addition of multiple lines for the table.

Sample

```
@FormField(label = "FIELD_TYPE_TABULAR",
type = FormFieldDefinition.FIELD_TYPE_TABULAR,
table = SimpleTabularProvider.SIMPLE_TABULAR_PROVIDER, multiline = true)
private String[] plainTabularValues;
```

4. FIELD_TYPE_BOOLEAN

The FIELD_TYPE_BOOLEAN sets a field as boolean type. If the field is selected, the field value is set as true otherwise the field value is set as false.

Attributes

No specific attribute for this field.

Sample

```
@FormField(label = "FIELD_TYPE_BOOLEAN", type = FormFieldDefinition.FIELD_TYPE_BOOLEAN)
private boolean boolType;
```

5. FIELD_TYPE_LABEL

The FIELD_TYPE_LABEL argument lets you specify a label for the field.

Attributes

- **htmlPopupTag**—Specify the URL that need to be loaded in the popup window.
- **htmlPopupLabel**—Specify the label for the popup window.
- **htmlPopupStyle**—Set the popup style for the label using one of the following values:
 - INFO_TAG

- `HELP_TAG`
- `CUSTOM_TAG`
- `INFO_URL`
- `HELP_URL`
- `CUSTOM_URL`

Sample

```
@FormField(type = FormFieldDefinition.FIELD_TYPE_LABEL, label = "FIELD_TYPE_LABEL",
htmlPopupTag = "http://www.cisco.com",htmlPopupLabel = "http://www.cisco.com",
htmlPopupStyle = HtmlPopupStyles.CUSTOM_URL)
private String dummyLink;
```

6. `FIELD_TYPE_EMBEDDED_LOV`

The `FIELD_TYPE_EMBEDDED_LOV` defines the field as embedded list of values (LOV) type and allows user to select one of value from the list of values.

Attributes

- You can specify either **lov** or **lovProvider** as attribute.

Sample

```
@FormField(label = "FIELD_TYPE_EMBEDDED_LOV", help = "Value",
type = FormFieldDefinition.FIELD_TYPE_EMBEDDED_LOV, lovProvider =
SimpleLovProvider.SIMPLE_LOV_PROVIDER)
private String value;
```

7. `FIELD_TYPE_PASSWORD`

The `FIELD_TYPE_PASSWORD` sets a field as password. The characters in a password field are masked (shown as asterisks or circles).

Attributes

No specific attribute for this field.

Sample

```
@FormField(label = "FIELD_TYPE_PASSWORD",
type = FormFieldDefinition.FIELD_TYPE_PASSWORD)
private String password;
```

8. `FIELD_TYPE_DATE`

The `FIELD_TYPE_DATE` defines an input field that should contain a date.

Attributes

No specific attribute for this field.

Sample

```
@FormField(label = "FIELD_TYPE_DATE", type = FormFieldDefinition.FIELD_TYPE_DATE)
private long dateLong;
```

9. `FIELD_TYPE_DATE_TIME`

The `FIELD_TYPE_DATE_TIME` defines an input field that should contain a date and time.

Attributes

No specific attribute for this field.

Sample

```
@FormField(label = "FIELD_TYPE_DATE_TIME", type =
FormFieldDefinition.FIELD_TYPE_DATE_TIME)
private long dateTime;
```

10. FIELD_TYPE_MULTI_SELECT_LIST

The FIELD_TYPE_MULTI_SELECT_LIST defines an input field to accept input from the multiple values.

Attributes

- **lovProvider**—Set the list of values that need to be displayed in the input field.

Sample

```
@FormField(label = "FIELD_TYPE_MULTI_SELECT_LIST",
type = FormFieldDefinition.FIELD_TYPE_MULTI_SELECT_LIST, lovProvider =
SimpleLovProvider.SIMPLE_LOV_PROVIDER)
private String listValue;
```

11. FIELD_TYPE_HTML_LABEL

The FIELD_TYPE_HTML_LABEL defines a field as HTML label. The HTML tag are accepted as string.

Attributes

- **size**—Set the size of the HTML label.

Sample

```
@FormField(type = FormFieldDefinition.FIELD_TYPE_HTML_LABEL, label =
"FIELD_TYPE_HTML_LABEL", htmlPopupLabel = "<a href='http://www.cisco.com'>Cisco</a>")
private String dummyLink2;
```

12. FIELD_TYPE_FILE_UPLOAD

The FIELD_TYPE_FILE_UPLOAD defines a field to upload a file.

Attributes

No specific attribute for this field.

Sample

```
@FormField(label = "FIELD_TYPE_FILE_UPLOAD", type =
FormFieldDefinition.FIELD_TYPE_FILE_UPLOAD)
private String uploadFileName;
```

13. FIELD_TYPE_TABULAR_POPUP

The FIELD_TYPE_TABULAR_POPUP defines the field as a tabular popup type.

Attributes

- **table**—Specify the tabular field name (TabularProvider) that has been already registered in the open automation module.

The following sample code of how the tabular provider is registered in the open automation module:

```
StorageModule.java(Registering Tabular report)
cfr.registerTabularField(SimpleTabularProvider.SIMPLE_TABULAR_PROVIDER,
SimpleTabularProvider.class, "0", "0");
```

Sample

```
@FormField(label = "FIELD_TYPE_TABULAR_POPUP",
type = FormFieldDefinition.FIELD_TYPE_TABULAR_POPUP, table =
SimpleTabularProvider.SIMPLE_TABULAR_PROVIDER)
private String tabularPopup;
```

14. FIELD_TYPE_EMBEDDED_LOV_RADIO

The FIELD_TYPE_EMBEDDED_LOV_RADIO defines the field as an embedded LOV radio buttons.

Attributes

- You can choose either **lov** or **lovProvider** as attribute.

Sample

```
@FormField(label = "FIELD_TYPE_EMBEDDED_LOV_RADIO",
type = FormFieldDefinition.FIELD_TYPE_EMBEDDED_LOV_RADIO, mandatory = true, lov = {
"Mode 1", "Mode 2", "Mode 3"}, validate = true, group="FIELD_TYPE_EMBEDDED_LOV_RADIO")
private String modeType = "Select Mode";
```

15. FIELD_TYPE_HTML_TEXT

The FIELD_TYPE_HTML_TEXT defines the field as a HTML text type.

Attributes

No specific attribute for this field.

Sample

```
@FormField(label = "FIELD_TYPE_HTML_TEXT", type =
FormFieldDefinition.FIELD_TYPE_HTML_TEXT,
editable = true, size=FormFieldDefinition.FIELD_SIZE_MEDIUM_SMALL)
private String status = "<h1>FIELD_TYPE_HTML_TEXT</h1>";
```

16. FIELD_TYPE_LABEL_WITH_SPACE

The FIELD_TYPE_LABEL_WITH_SPACE defines the field as a label with space.

Attributes

No specific attribute for this field.

Sample

```
@FormField(label = "FIELD_TYPE_LABEL_WITH_SPACE",
help = "Ordering of VNICs", type = FormFieldDefinition.FIELD_TYPE_LABEL_WITH_SPACE)
private String vnicLabel;
```

17. FIELD_TYPE_IMAGE_SELECT_LIST

The FIELD_TYPE_IMAGE_SELECT_LIST defines the field that should accept selection of image from the image select list.

Attributes

No specific attribute for this field.

Sample

```
@FormField(label = "FIELD_TYPE_IMAGE_SELECT_LIST", type =
FormFieldDefinition.FIELD_TYPE_IMAGE_SELECT_LIST, mandatory = false, editable = true)
private String catalogIcon;
```

18. FIELD_TYPE_BUTTON_PANEL

The FIELD_TYPE_BUTTON_PANEL defines the field as a button panel.

Attributes

- **lov**—Specify the registered LOV provider name. Also, you can directly give the values as Lov = {http,https}. For more information, refer the SimpleLovProvider.java sample LOV provider in the open automation module.

Sample

```
@FormField(label = "FIELD_TYPE_BUTTON_PANEL",
type = FormFieldDefinition.FIELD_TYPE_BUTTON_PANEL,
lov = {"Discover Servers"}, validate = true, group = "UCSM/CIMC Common", mandatory =
false)
private String discoverServers = "Discover Servers";
```

19. FIELD_TYPE_TEXT_LINE_NUMS

The FIELD_TYPE_TEXT_LINE_NUMS defines the field as a text field with line numbers.

Attributes

- **maxlength**—Specify the maximum number of character allowed in the text field.
- **multiline**—This attribute is boolean type. Set as true to allow addition of multiple lines for the text field.
- **size**—Set the size of the text field using one of the following values:
 - FIELD_SIZE_SMALL
 - FIELD_SIZE_MEDIUM
 - FIELD_SIZE_LARGE
 - FIELD_SIZE_MEDIUM_SMALL
 - FIELD_SIZE_LARGE_SMALL
 - FIELD_SIZE_SMALL_MEDIUM
 - FIELD_SIZE_LARGE_MEDIUM
 - FIELD_SIZE_SMALL_LARGE
 - FIELD_SIZE_MEDIUM_LARGE

Sample

```
@FormField(label = "FIELD_TYPE_TEXT_LINE_NUMS",
help = "Error Text to validate", mandatory = false,
multiline = true, maxLength = 8192,
type = FormFieldDefinition.FIELD_TYPE_TEXT_LINE_NUMS,
size = FormFieldDefinition.FIELD_SIZE_SMALL_LARGE)
private String message;
```

20. FIELD_TYPE_LARGE_FILE_UPLOAD

The `FIELD_TYPE_LARGE_FILE_UPLOAD` defines a field that should allow user to upload a large file.

Attributes

No specific attribute for this field.

Sample

```
@FormField(label = "", help = "Upload a file",
mandatory = true, validate = true, type =
FormFieldDefinition.FIELD_TYPE_LARGE_FILE_UPLOAD,
annotation = "For module uploads only zip format are supported")
private String uploadFile;
```

21. FIELD_TYPE_COLORPICKER

The `FIELD_TYPE_COLORPICKER` defines a field to pick a color.

Attributes

No specific attribute for this field.

Sample

```
@FormField(label = "FIELD_TYPE_COLORPICKER", help = "Color",
mandatory = true, validate = true, type = FormFieldDefinition.FIELD_TYPE_COLORPICKER)
private String color;
```

Common Attributes

This section provides a list of common attributes that you can use along with the form fields to control the field activity. For example, if you want to make Name field as mandatory, you need to pass **true** as the mandatory attribute value.

1. **validate**—The attribute type is boolean. By default, the attribute value is **false**. If you want to validate a field, you need to pass **true** as the attribute value.
2. **hidden**—The attribute type is boolean. By default, the attribute value is **false**. If you want to hide a field in a form, you need to pass **true** as the attribute value.
3. **mandatory**—The attribute type is boolean. By default, the attribute value is **false**. If you want to make a field as mandatory, you need to pass **true** as the attribute value.
4. **editable**—The attribute type is boolean. By default, the attribute value is **false**. This attribute is only applicable for text field. If you want to make the text field as editable, you need to pass **true** as the attribute value.
5. **group**—The attribute type is string. If you want to define single field or multiple fields in a group, you need to specify the group name as the attribute value.
6. **view**—The attribute type is string. If you have multiple forms in a wizard, you need to mention the page number as the attribute value so that the field will be displayed on the specified page number. If you do not have multiple pages in a wizard, no need to use this attribute.
7. **help**—The attribute type is string. This attribute lets you specify descriptive help text for the field. If you provide help text, the text will be displayed when a user hovers the mouse pointer over the field.

