

# Creating a custom dependency matrix type

To create a custom dependency matrix type:

1. Create a new plugin to register components of the new dependency matrix type.
2. Register the new dependency matrix type that it was added to modeling tool toolbars and menus.

## Creating a [plugin](#) for custom dependency matrix type

Use the [com.nomagic.magicdraw.dependencymatrix.configuration.DependencyMatrixConfigurator](#) class to register components of the new dependency matrix type as shown in the following example:

```
public class DependencyMatrixExample extends Plugin
{
    @Override
    public void init()
    {
        DependencyMatrixConfigurator.registerConfiguration(new
        DependencyMatrixSampleConfigurator("Sample Extended Matrix"));
    }

    @Override
    public boolean close()
    {
        return true;
    }

    @Override
    public boolean isSupported()
    {
        return true;
    }
}
```



Remember the name of the new dependency matrix type that you pass as an argument while creating a new instance of the [DependencyMatrixConfigurator](#) class (in the preceding example, it is "Sample Extended Matrix"). You will have to specify the exact name when registering a new diagram type.

The sample of more detailed configuration code is provided in *<program installation folder>\openapi\examples\dependencymatrix*.

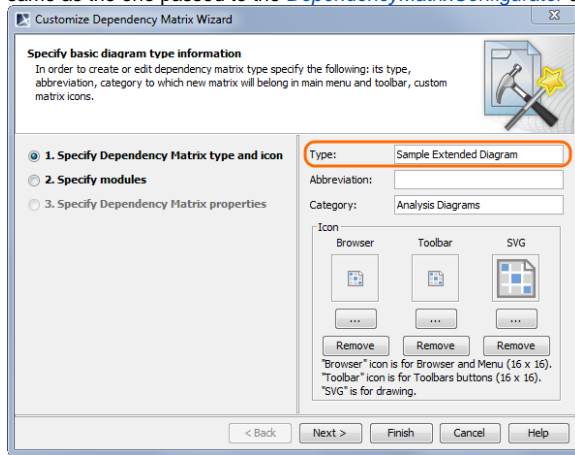
## Registering a new dependency matrix type in UI

Once the [plugin](#) is created, you have to register the new dependency matrix type by using the **Customize Dependency Matrix Wizard** dialog. Only then it will be added to program toolbars and menus.

To register a new dependency matrix type

1. Start a modeling tool, for example, MagicDraw.
2. On the **Diagrams** menu, click **Customize**. The **Customize Diagrams** dialog opens.
3. Click **Create** and then select **Dependency Matrix Type**. The **Customize Dependency Matrix Wizard** dialog opens.

4. In the **Type** box, specify the name of the new dependency matrix type. The value must be the same as the one passed to the [DependencyMatrixConfigurator](#) class as the argument.



*Specifying name of new Dependency Matrix type*

5. In the **Abbreviation** box, specify the abbreviation of the new dependency matrix type.
6. Click **Finish**.
7. Restart your modeling tool.

You can now create a custom dependency matrix.



For more information on how to customize a new dependency matrix type by using the **Customize Dependency Matrix Wizard** dialog, see **“Creating New Dependency Matrix Type” in the MagicDraw UMLProfiling&DSL UserGuide.pdf**.