## 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 W izard 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.

Customize Dependency Matrix Wizard			
Specify basic diagram type information In order to greate or edit dependency matrix type specify the following: its type, abbreviation, category to which new matrix will belong in main menu and toolbar, custom matrix icons.			
I. Specify Dependency Matrix type and icon	Type:	Sample Extended Diagram	
2. Specify modules	Abbreviation:		
③ 3. Specify Dependency Matrix properties	Category:	Analysis Diagrams	
	Icon	Toolbar	SVC
	Remove "Browser" icor "Toolbar" icon "SVG" is for dr	I DODDAR 	emove (16 x 16). (6 x 16).
< Back Next > Finish Cancel Help			

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 Custo mize Dependency Matrix Wizard dialog, see "Creating New Dependency Matrix Type" in the MagicDraw UMLProfiling&DSL UserGuide.pdf.