



SIRIUS

“The easiest way to get your own Modeling Tool”

ROTEIRO

- Objetivo da Apresentação
- Sobre a Sirius
- Versões Utilizadas
- Instalação
- Representação DSL usada
- Tutorial Sirius
- Conclusões
- Referências

Objetivo da Apresentação

- Mostrar as funções da ferramenta Sirius;
- Criar uma representação DSL simples que permita entender a ferramenta;

Sobre a SIRIUS

Sirius é uma ferramenta de criação de editores de modelagem.

O resultado final da Sirius é um editor gráfico baseado na representação de uma DSL em modelo EMF (Eclipse Modeling Framework).

SIRIUS - versões utilizadas

- Eclipse Modeling Neon
- Sirius 4.1

INSTALAÇÃO

Para utilizar a Sirius é necessário ter:

Eclipse Modeling Tools instalado ou o pacote Ecore Tools*.

*Segundo a documentação do site, ao fazer o download do Eclipse Modeling Tools o Ecore Tools já vem instalado, porém eu precisei instalar ambos.

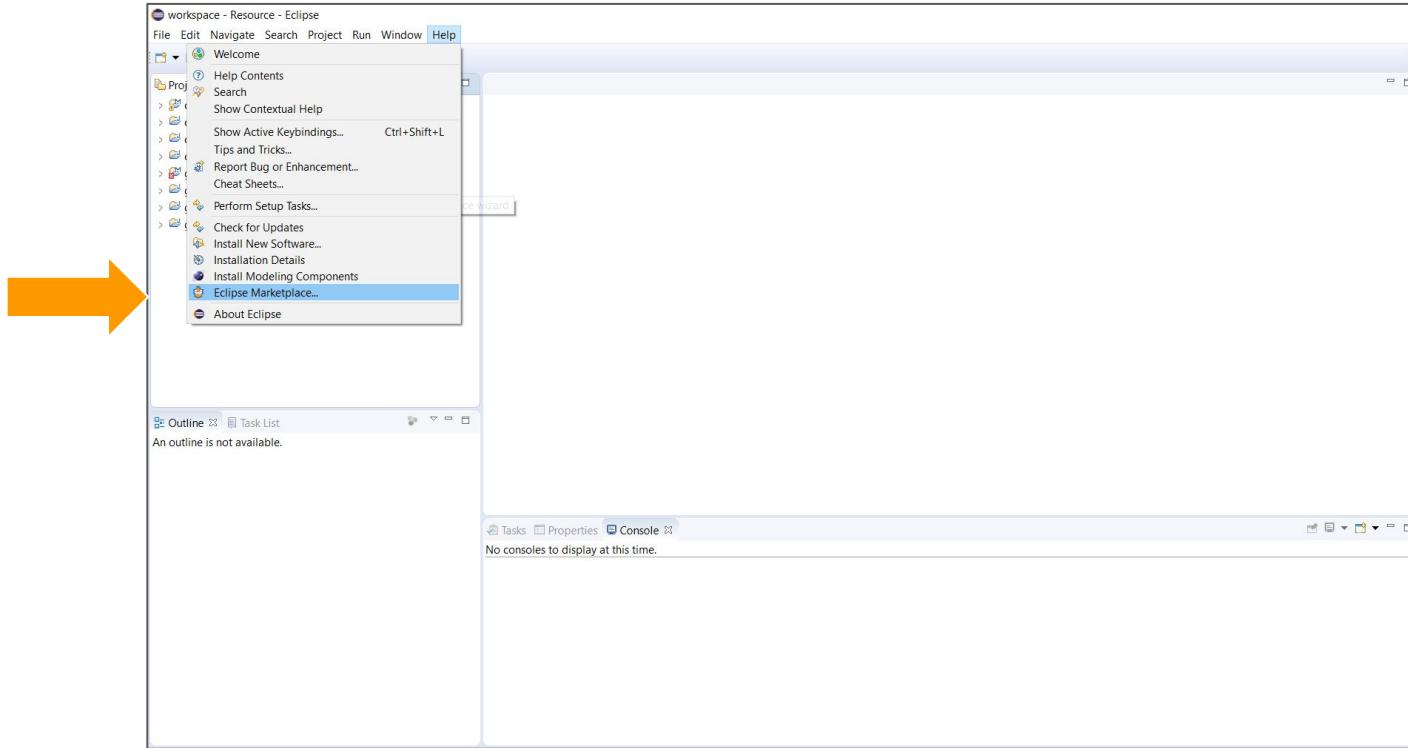
INSTALAÇÃO - Modeling Tool

LINK: <https://www.eclipse.org/downloads/packages/release/Neon/3>

	227 MB - Downloaded 13,701 Times	Mac Cocoa 64-bit Linux 32-bit 64-bit
	Eclipse IDE for Java and DSL Developers 309 MB - Downloaded 12,230 Times	Windows 32-bit 64-bit Mac Cocoa 64-bit Linux 32-bit 64-bit
	Eclipse for RCP and RAP Developers 254 MB - Downloaded 9,277 Times	Windows 32-bit 64-bit Mac Cocoa 64-bit Linux 32-bit 64-bit
	Eclipse Modeling Tools 392 MB - Downloaded 5,258 Times	Windows 32-bit 64-bit Mac Cocoa 64-bit Linux 32-bit 64-bit
	Eclipse IDE for Java and Report Developers 315 MB - Downloaded 3,179 Times	Windows 32-bit 64-bit Mac Cocoa 64-bit Linux 32-bit 64-bit
	Eclipse for Testers 131 MB - Downloaded 2,534 Times	Windows 32-bit 64-bit Mac Cocoa 64-bit Linux 32-bit 64-bit
	Eclipse for Scout Developers 212 MB - Downloaded 1,509 Times	Windows 32-bit 64-bit Mac Cocoa 64-bit Linux 32-bit 64-bit



INSTALAÇÃO - Ecore Tools



INSTALAÇÃO - Ecore Tools

The screenshot shows the Eclipse Marketplace window. At the top, there's a search bar with the text 'Find: ecore'. Below the search bar, a message says 'Select solutions to install. Press Install Now to proceed with installation. Press the "more info" link to learn more about a solution.' A large orange arrow points to the 'Install' button next to the 'EcoreTools : Ecore Diagram Editor 3.1' entry.

EcoreTools : Ecore Diagram Editor 3.1
EcoreTools is a graphical modeler to create, edit and analyze Ecore models. It provides several a class diagram editor (similar to UML Class Diagrams), a package... [more info](#)
by Qbeo, EPL
Ecore UML diagram designer class
★ 8 Installs: 9.01K (428 last month) [Installed](#)

Nasdanika Information Center 1.0.0
Nasdanika Information Center can be used to host web-based ECore model documentation. Model elements can be documented with annotations or documentation can be... [more info](#)
by Nasdanika, EPL
Ecore documentation web html markdown
★ 0 Installs: 37 (0 last month) [Install](#)

Web UI Generation Target for Nasdanika Ecore Code Generator 0.1.0
The Web UI generation target for the Nasdanika Ecore Code Generation Editor. It generates artifacts which are used by Nasdanika CDO Web Application Rendering... [more info](#)
by Nasdanika LLC, EPL
nasdanika-codegen-ecore-target web generator bootstrap
★ 0 Installs: 28 (28 last month) [Install](#)

g9 Database Import 2.6.0
Do you need to create your classes in an Ecore or Ecore representation of your existing database? g9 Database Model Import is a free Eclipse plugin producing... [more info](#)

Marketplaces

At the bottom right, there are 'Finish' and 'Cancel' buttons, with a large orange arrow pointing towards the 'Finish' button.

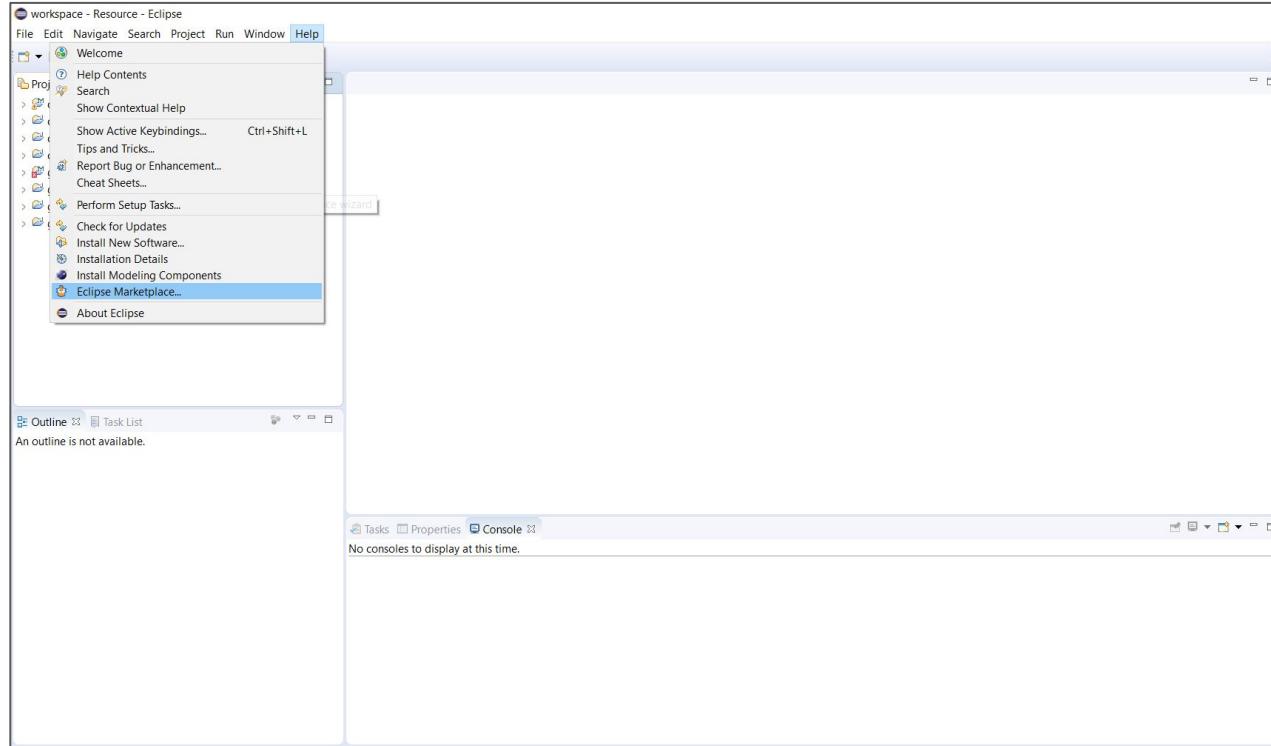
INSTALAÇÃO

Três modos de instalar a Sirius:

- Direto pelo Eclipse MarketPlace
- Pelo link do download
- Pelo Obeo Designer

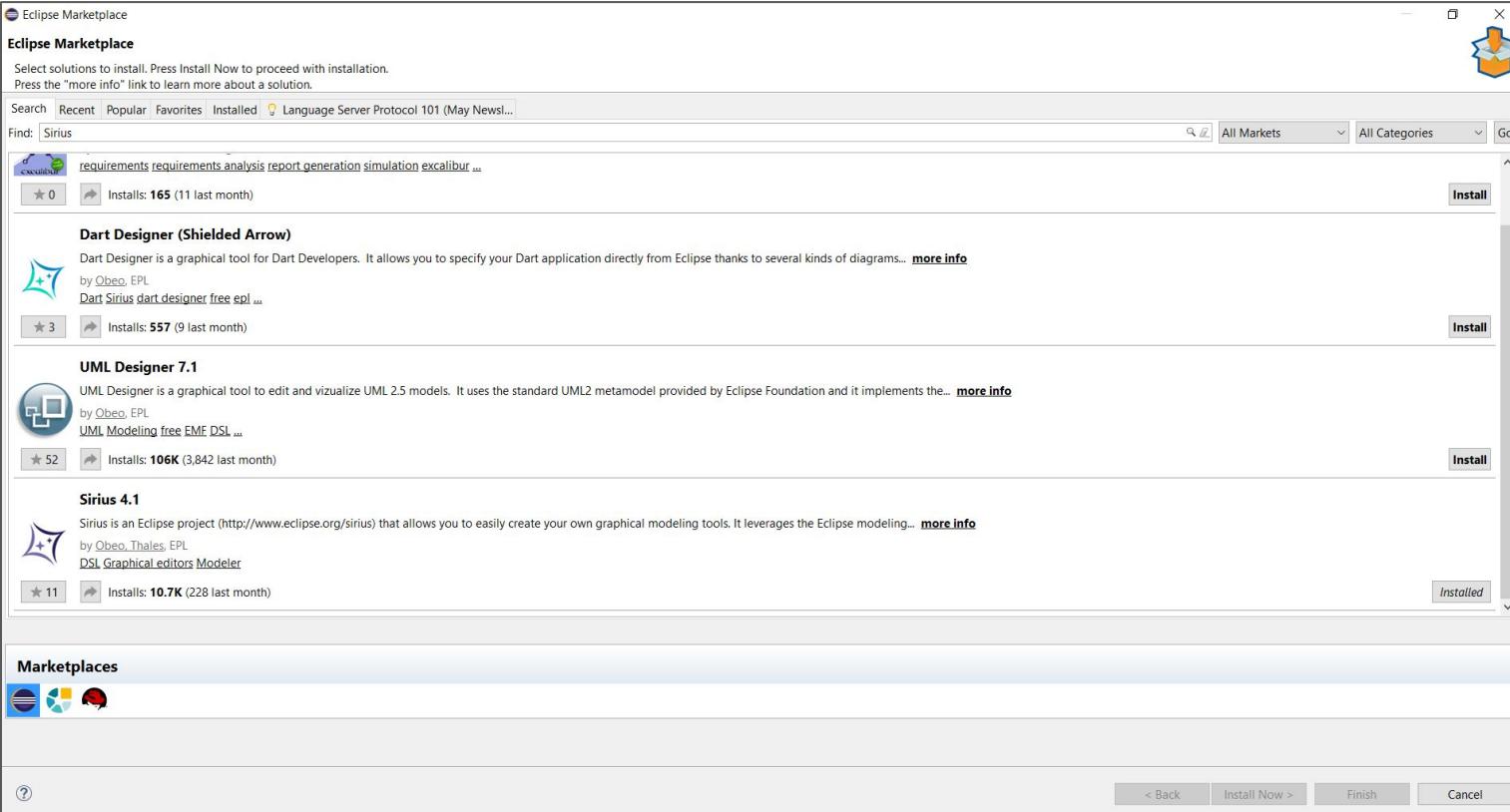
INSTALAÇÃO - MarketPlace

Direto pelo Eclipse MarketPlace



INSTALAÇÃO - MarketPlace

Direto pelo Eclipse MarketPlace



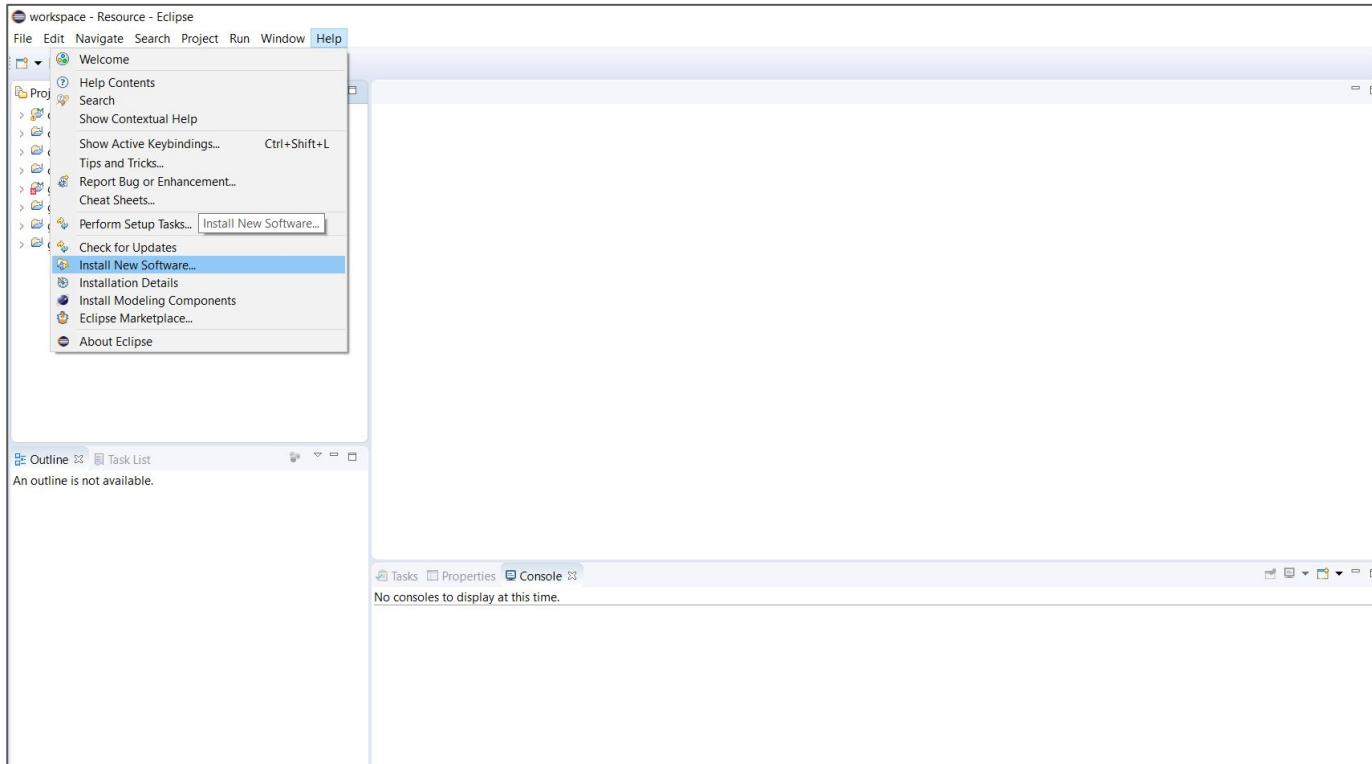
The screenshot shows the Eclipse Marketplace interface. At the top, there is a search bar with the text "Find: Sirius". Below the search bar, there is a list of search results:

- Dart Designer (Shielded Arrow)**
Dart Designer is a graphical tool for Dart Developers. It allows you to specify your Dart application directly from Eclipse thanks to several kinds of diagrams... [more info](#)
by Obeo, EPL
[Dart Sirius dart_designer free epl](#) ...
★ 0 | Installs: 165 (11 last month) | [Install](#)
- UML Designer 7.1**
UML Designer is a graphical tool to edit and visualize UML 2.5 models. It uses the standard UML2 metamodel provided by Eclipse Foundation and it implements the... [more info](#)
by Obeo, EPL
[UML Modeling free EMF DSL](#) ...
★ 3 | Installs: 557 (9 last month) | [Install](#)
- Sirius 4.1**
Sirius is an Eclipse project (<http://www.eclipse.org/sirius>) that allows you to easily create your own graphical modeling tools. It leverages the Eclipse modeling... [more info](#)
by Obeo, Thales, EPL
[DSL Graphical editors Modeler](#)
★ 11 | Installs: 10.7K (228 last month) | [Installed](#)

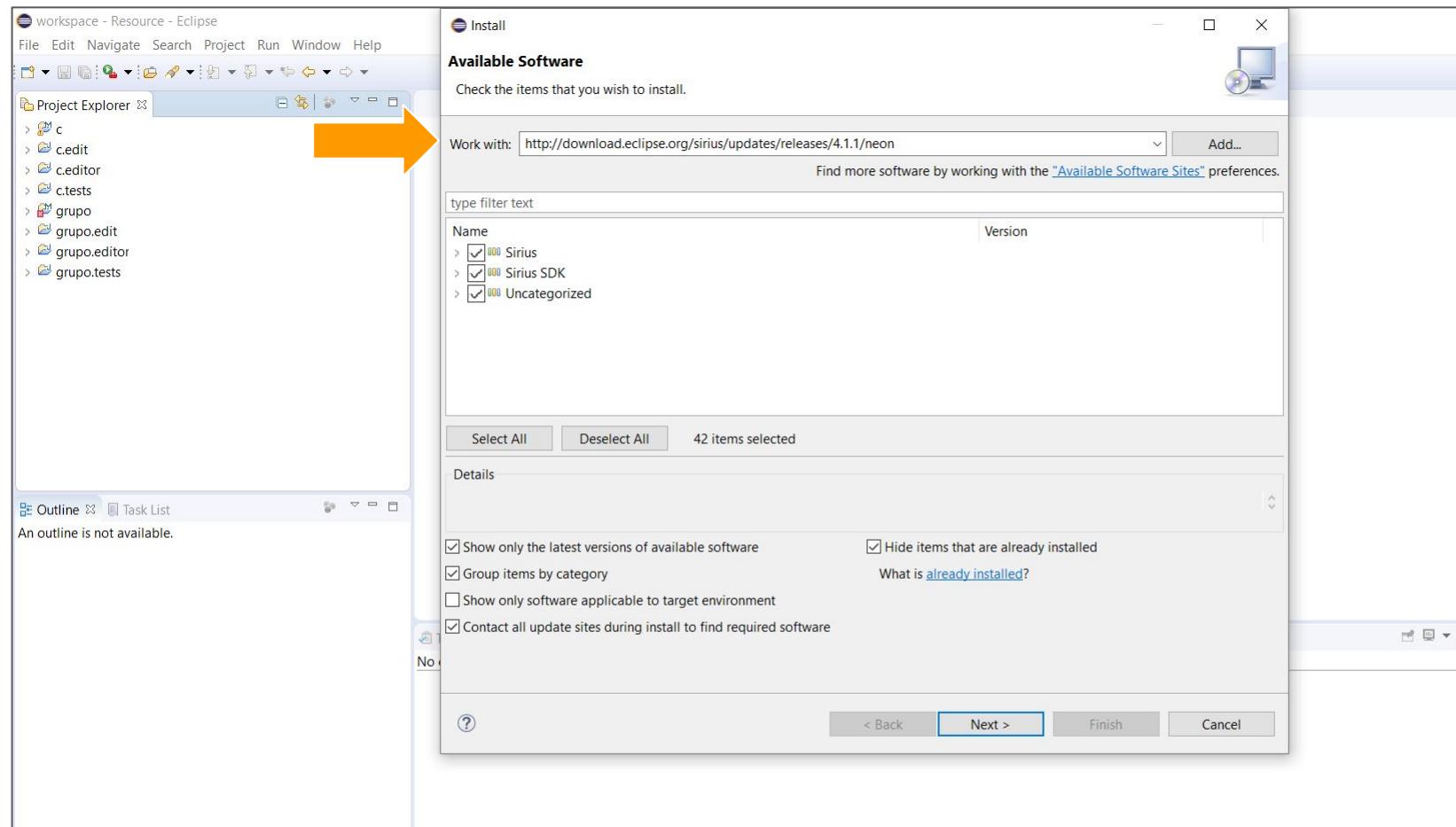
At the bottom of the interface, there is a section titled "Marketplaces" with three icons: a globe, a gear, and a person. Below this, there are buttons for "?", "< Back", "Install Now >", "Finish", and "Cancel".

INSTALAÇÃO - Link

Pela URL: <http://download.eclipse.org/sirius/updates/releases/4.1.1/neon>



INSTALAÇÃO - Link



INSTALAÇÃO - Obeo

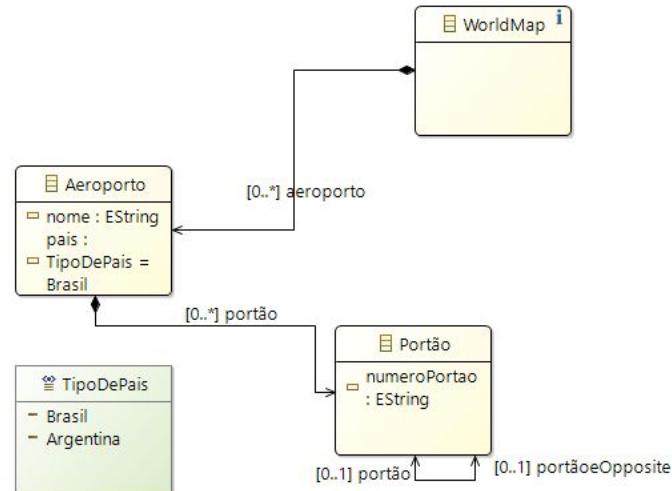
Pelo OBEO DESIGNER*

Link: <http://www.obeodesigner.com/download>

*Eu testei os três modos de instalação e pelo Obeo Designer não obtive êxito.

Representação DSL

Neste tutorial iremos manipular uma DSL que representa as ligações aéreas que existem entre dois diferentes aeroportos.

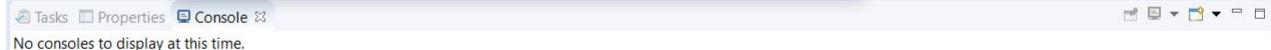
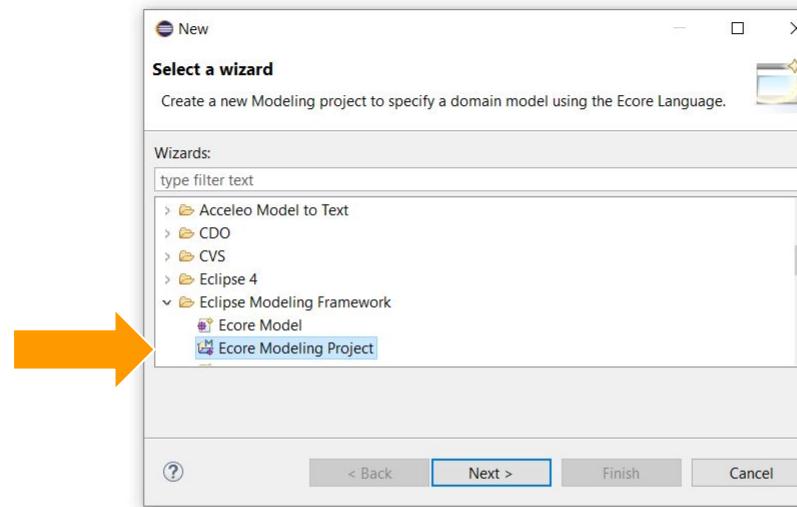


- New Alt+Shift+N >
 - Open File...
 - Open Projects from File System...
 - Close Ctrl+W
 - Close All Ctrl+Shift+W
 - Save Ctrl+S
 - Save As... Ctrl+Shift+S
 - Save All Ctrl+S
 - Revert
 - Move...
 - Rename... F2
 - Refresh F5
 - Convert Line Delimiters To >
 - Print... Ctrl+P
 - Switch Workspace >
 - Restart
 - Import... >
 - Export... >
 - Properties Alt+Enter
- 1 grupo.ecore [grupo/model]
2 build.properties [c]
3 compras [resource/compras/model/...]
4 compras.ecore [compras/model]
- Exit

- 
- Project...
 - Folder
 - File
 - Task
 - Untitled Text File
 - Example...
 - Other... Ctrl+N

Tasks Properties Console

No consoles to display at this time.





Qu

Project Explorer

- > c
- > c.edit
- > c.editor
- > c.tests
- > grupo
- > grupo.edit
- > grupo.editor
- > grupo.tests

Outline

An outline is not available.

New Ecore Modeling Project

Create a new Ecore Modeling project



Enter a project name

Project name: AeroportoDSL

 Use default location

Location: C:\Users\Bruno\workspace\AeroportoDSL

Browse...

Working sets

 Add project to working sets

New...

Working sets:

Select...



< Back

Next >

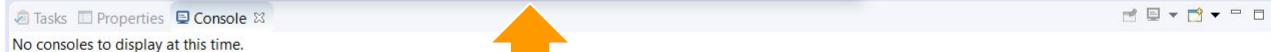
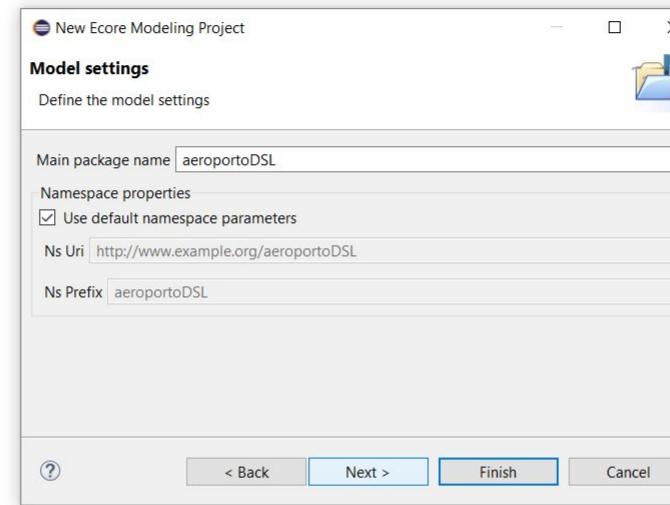
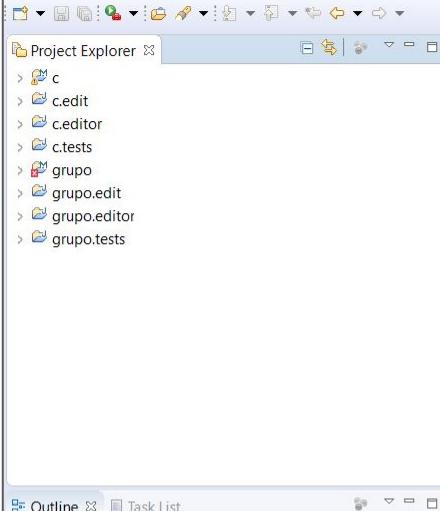
Finish

Cancel

Tasks Properties Console

No consoles to display at this time.





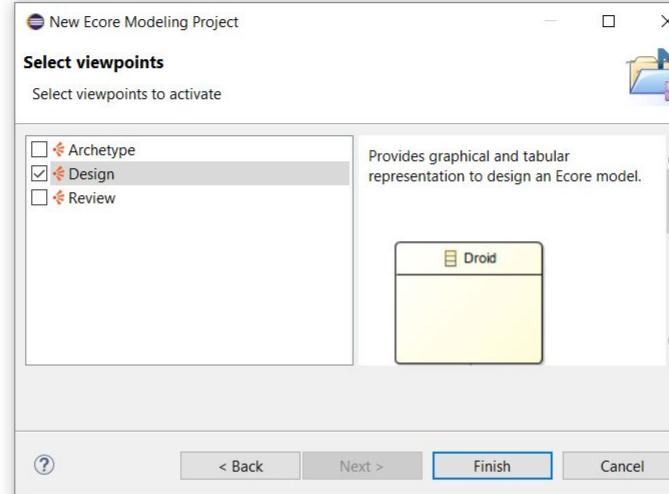


Project Explorer

- > c
- > c.edit
- > c.editor
- > c.tests
- > grupo
- > grupo.edit
- > grupo.editor
- > grupo.tests

Outline

An outline is not available.



Tasks Properties Console

No consoles to display at this time.



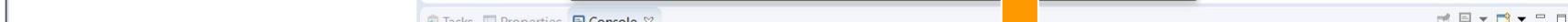
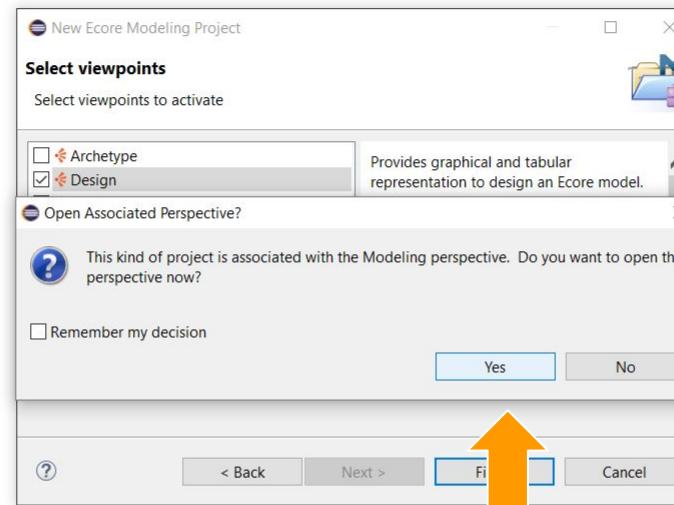


Project Explorer

- > c
- > c.edit
- > c.editor
- > c.tests
- > grupo
- > grupo.edit
- > grupo.editor
- > grupo.tests

Outline

An outline is not available.



No consoles to display at this time.



Model Explorer

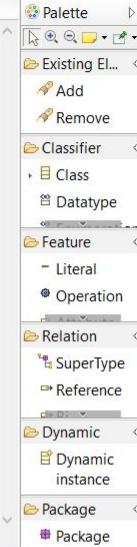
- type filter text
- ▼ AeroportoDSL
 - Project Dependencies
 - > src
 - > JRE System Library [JavaSE-1.8]
 - > Plug-in Dependencies
 - > META-INF
 - ▼ model
 - > aeroportoDSLaird
 - ▼ aeroportoDSLcore
 - aeroportoDSL
 - > aeroportoDSLgenmodel
 - > c
 - > c.edit
 - > c.editor
 - > c.tests
 - > grupo
 - > aruno.edit

Outline

aeroportoDSL

100%

Representação EMF é feita no arquivo .ecore



Properties

aeroportoDSL

Model

Properties	
Name:	aeroportoDSL
Ns URI:	http://www.example.org/aeroportoDSL
Ns Prefix:	aeroportoDSL



Model Explorer

- type filter text
- AeroportoDSL
 - Project Dependencies
 - src
 - JRE System Library [JavaSE-1.8]
 - Plug-in Dependencies
 - META-INF
 - MANIFEST.MF
 - model
 - aeroportoDSLaird
 - aeroportoDSLecore
 - aeroportoDSL
 - aeroportoDSL
 - NewEClass1
 - aeroportoDSL.genmodel
 - AeroportoDSL
 - AeroportoDSL

Outline

Criação do EMF que servirá de base para a ferramenta



Properties

NewEClass1

Model

- Instantiation
- Annotation
- Extended Metadata
- GenModel Doc
- Semantic
- Style
- Appearance

Properties

Name: NewEClass1

 Abstract ? Interface ?

Inheritance

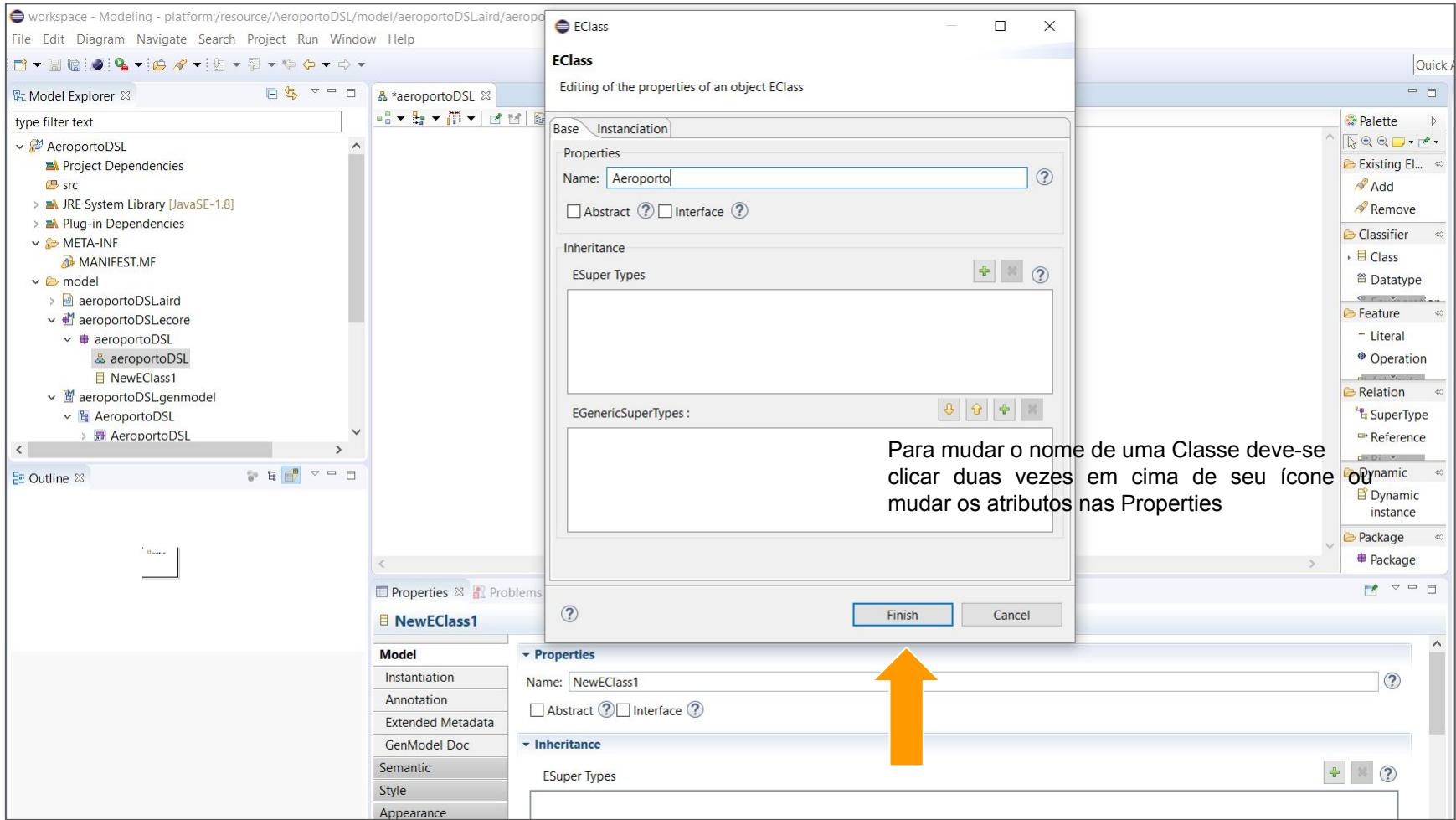
ESuper Types



Quick A

Palette

- Existing El...
- Add
- Remove
- Classifier
 - Class
 - Datatype
- Feature
 - Literal
 - Operation
- Relation
 - SuperType
 - Reference
- Dynamic
 - Dynamic instance
- Package
 - Package





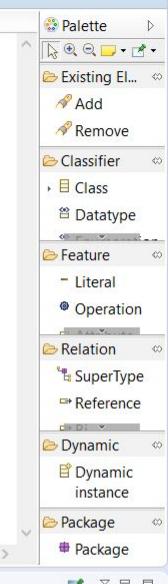
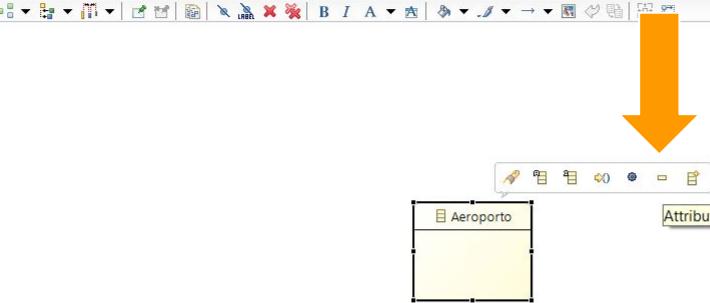
Quick

Model Explorer

- type filter text
- AeroportoDSL
 - Project Dependencies
 - src
 - JRE System Library [JavaSE-1.8]
 - Plug-in Dependencies
 - META-INF
 - MANIFEST.MF
 - model
 - aeroportoDSLaird
 - aeroportoDSLcore
 - aeroportoDSL
 - Aeroporto
 - aeroportoDSLgenmodel
 - AeroportoDSL
 - AeroportoDSL

Outline

aeroportoDSL



Para adicionar um atributo deve-se pousar o mouse em cima da Classe

workspace - Modeling - platform/resource/AeroportoDSL/model/aeroportoDSLaIRD/aeroportoDSL - Eclipse

File Edit Diagram Navigate Search Project Run Window Help

Model Explorer

*aeroportoDSL

AeroportoDSL

- Project Dependencies
- src
- JRE System Library [JavaSE-1.8]
- Plug-in Dependencies

META-INF

- MANIFEST.MF

model

- aeroportoDSLaIRD
- aeroportoDSLeCore
- aeroportoDSL
 - aeroportoDSL
 - Aeroporto
- aeroportoDSLeGenModel
- AeroportoDSL
- AeroportoDSL

Outline

Aeroporto

- home : EString

Palette

- Existing Element
- Add
- Remove
- Classifier
 - Class
 - Datatype
- Feature
 - Literal
 - Operation
- Relation
 - SuperType
 - Reference
- Dynamic
 - Dynamic instance
- Package
 - Package

Properties

name : EString

Model

- Annotation
- Extended Metadata
- GenModel Doc
- Semantic
- Style
- Appearance

Properties

Name: nome

EType: EString [java.lang.String]

Default Value Literal:

ID

Cardinality

Para escolher o Tipo do atributo deve editar a propriedade Etype

```
graph TD; A[Para escolher o Tipo do atributo deve editar a propriedade Etype] -- "Orange Arrow" --> B[EType: EString [java.lang.String]]
```

Model Explorer ☰

type filter text

- ✓ AeroportoDSL
 - Project Dependencies
 - src
 - JRE System Library [JavaSE-1.8]
 - Plug-in Dependencies
- META-INF
 - MANIFEST.MF
- model
 - aeroportoDSLaIRD
 - aeroportoDSLeCore
 - aeroportoDSL
 - Aeroporto
 - aeroportoDSLeGenmodel
 - AeroportoDSL
 - AeroportoDSL

Outline ☰

Properties ☰ Problems

newAttribute

Model Properties

Name: pais

EType:

Default Value Literal:

ID

Cardinality

Lower Bound: n

Diagram Area

Aeroporto

name : EString

newAttribute

Palette

- Existing El...
- Add
- Remove
- Classifier
 - Class
 - Datatype
- Feature
 - Literal
 - Operation
- Relation
 - SuperType
 - Reference
- Dynamic
 - Dynamic instance
- Package
 - Package

Adicionando o atributo País

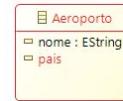


Model Explorer

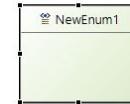
- type filter text
- AeroportoDSL
 - Project Dependencies
 - src
 - JRE System Library [JavaSE-1.8]
 - Plug-in Dependencies
 - META-INF
 - MANIFEST.MF
 - model
 - aeroportoDSLaird
 - aeroportoDSLecore
 - aeroportoDSL
 - aeroportoDSL
 - Aeroporto
 - NewEnum1
 - aeroportoDSL.genmodel
 - AeroportoDSL

Outline

Essa representação de Aeroporto só permite dois países: Brasil e Argentina



Para isso,
devemos adicionar
uma Classe
Enumeration



Properties

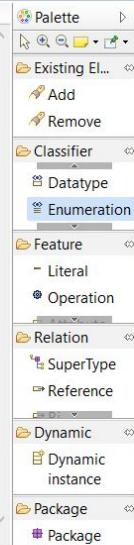
NewEnum1

Data Type

- Instantiation
- Annotation
- Extended Metadata
- GenModel Doc
- Semantic
- Style

Properties

- Name: NewEnum1
 Serializable



Clicando na Classe Enumeration criada podemos alterar o seu nome e adicionar suas variáveis

The screenshot shows the Eclipse Modeling Platform interface. On the left, the Model Explorer view displays the project structure, including the 'aeroportoDSLaIRD' project and its contents like 'aeroportoDSLeCore' and 'aeroportoDSLeSL'. In the center, the Properties view shows a new enumeration named 'NewEnum1' with a single property 'Nome' of type 'EString'. A large orange arrow points from this view to the 'EEnum' properties dialog on the right. This dialog shows the 'Name' field set to 'TipoDePaís' and the 'Serializable' checkbox checked. The dialog has 'Finish' and 'Cancel' buttons at the bottom.

Aeroporto

- nome : EString
- país

Properties

NewEnum1

Data Type

Instantiation

Annotation

Extended Metadata

GenModel Doc

Semantic

Style

Appearance

Properties

Name: TipoDePaís

Serializable

EEnum

Editing of the properties of an object EEnum

Properties

Name: TipoDePaís

Serializable

Finish Cancel



Model Explorer

type filter text

- ✓ AeroportoDSL
 - Project Dependencies
 - src
- > JRE System Library [JavaSE-1.8]
- > Plug-in Dependencies
- ✓ META-INF
 - MANIFEST.MF
- ✓ model
 - aeroportoDSLaIRD
 - ✓ aeroportoDSLeCore
 - aeroportoDSL
 - Aeroporto
 - ✓ TipoDePais
 - aeroportoDSLeGenmodel
 - AeroportoDSL

Outline

Deve-se mudar o Etype de Pais para o Type criado, TipoDePais



Properties

pais

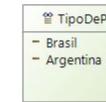
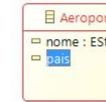
Model

Name:	pais
Etype:	<input type="button" value="..."/>
Default Value Literal:	<input type="text"/>
<input type="checkbox"/> ID	
Cardinality	
Lower Bound:	0

Select an element

tipoDePais

Type	Nom
EEnum	TipoDePais



OK

Cancel



Model Explorer

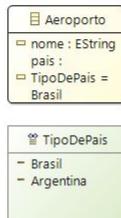
type filter text

- ✓ AeroportoDSL
 - Project Dependencies
 - src
- > JRE System Library [JavaSE-1.8]
- > Plug-in Dependencies
- ✓ META-INF
 - MANIFEST.MF
- ✓ model
 - aeroportoDSL.aasd
 - ✓ aeroportoDSLcore
 - ✓ aeroportoDSL
 - aeroportoDSL
 - Aeroporto
 - TipoDePaís
 - ✓ aeroportoDSLgenmodel
 - AeroportoDSL

Outline

*aeroportoDSL

100%



Properties

aeroportoDSL

Properties

Name: aeroportoDSL

Ns URI: <http://www.example.org/aeroportoDSL>

Ns Prefix: aeroportoDSL

Quick

- Existing El...
- Add
- Remove
- Classifier
- Datatype
- Enumeration
- Feature
 - Literal
 - Operation
- Relation
 - SuperType
 - Reference
- Dynamic
- Dynamic instance
- Package
- Package

SIRIUS

Repetir os passos para a criação das classes WorldMap e Portão



Model Explorer

type filter text

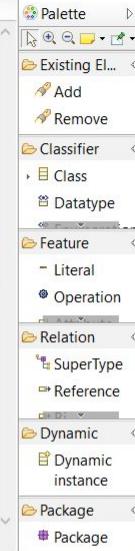
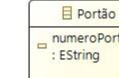
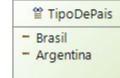
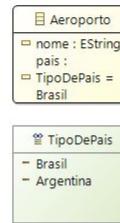
- ✓ AeroportoDSL
 - Project Dependencies
 - src
 - > JRE System Library [JavaSE-1.8]
 - > Plug-in Dependencies
- ✓ META-INF
 - MANIFEST.MF
- ✓ model
 - > aeroportoDSLaIRD
 - > aeroportoDSLeCore
 - ✓ aeroportoDSL
 - aeroportoDSL
 - > Aeroporto
 - > TipoDePaís
 - WorldMap
 - > Portão

Outline



*aeroportoDSL

100%



Properties

aeroportoDSL

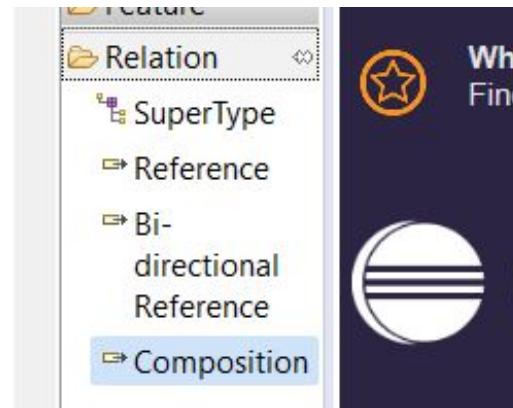
Model

Properties	
Name:	aeroportoDSL
Ns URI:	http://www.example.org/aeroportoDSL
Ns Prefix:	aeroportoDSL

Sirius - Relações

Quatro tipos:

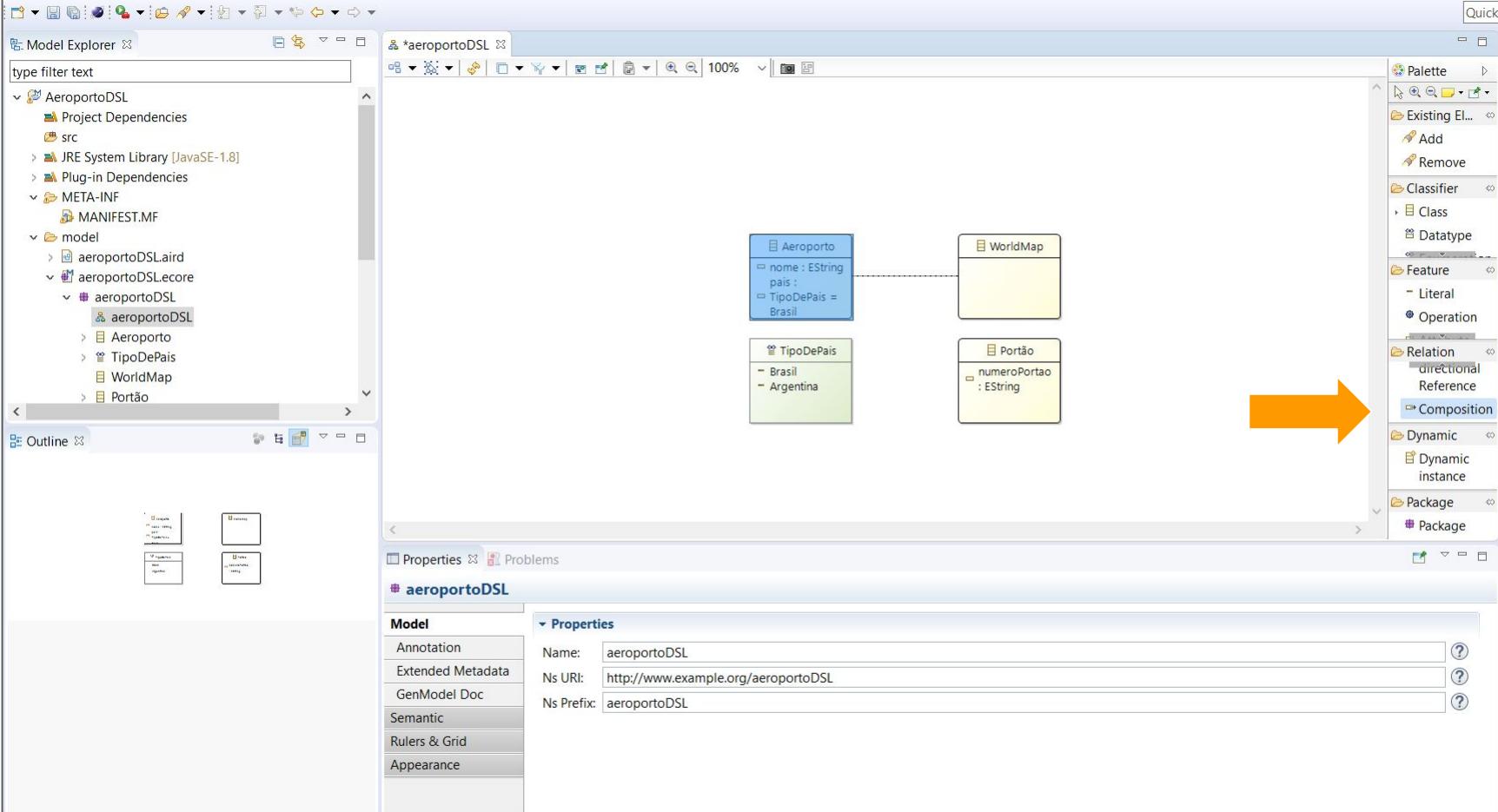
- SuperType
- Reference
- Bi-directional Reference
- Composition

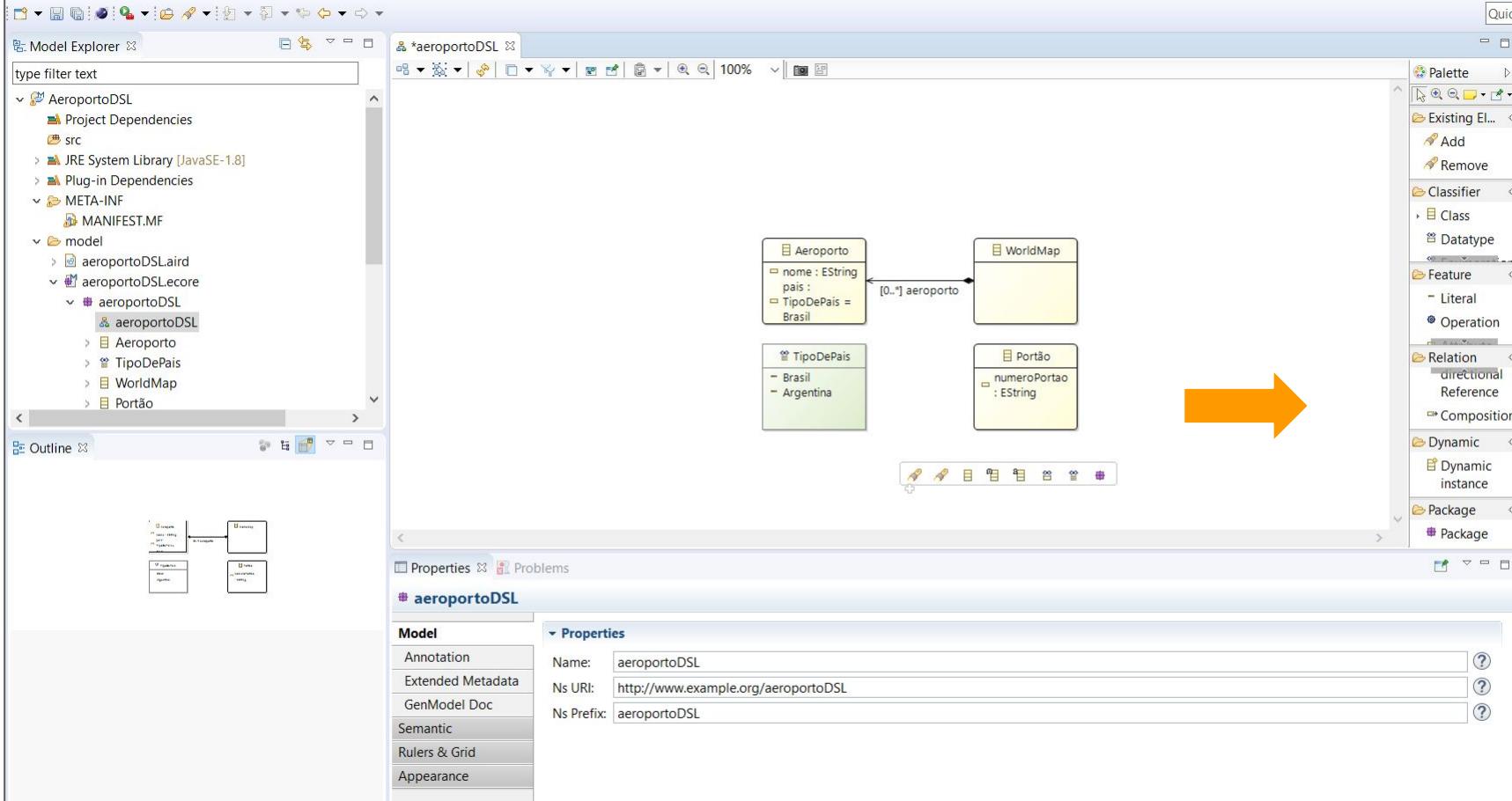


Sirius - Relações

- A DSL Aeroporto possui três relações:

O WorldMap pode possuir nenhum ou muitos aeroportos. Já os Aeroportos podem ter nenhum ou muitos portões. Os portões, por sua vez, devem ter uma saída e uma entrada.





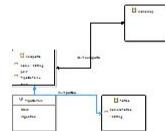


Model Explorer

type filter text

- AeroportoDSL
 - Project Dependencies
 - src
- JRE System Library [JavaSE-1.8]
- Plug-in Dependencies
- META-INF
 - MANIFEST.MF
- model
 - aeroportoDSLaIRD
 - aeroportoDSLeCore
 - aeroportoDSL
 - aeroportoDSL
 - Aeroporto
 - TipoDePaís
 - WorldMap
 - Portão

Outline



*aeroportoDSL

type filter text

Properties

Problems

portão : Portão

Model

Cardinality

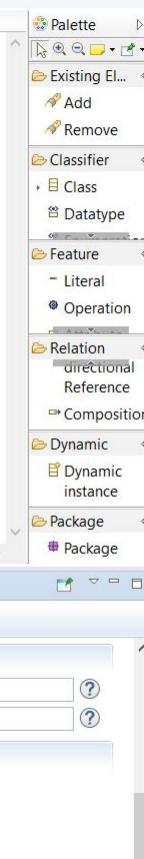
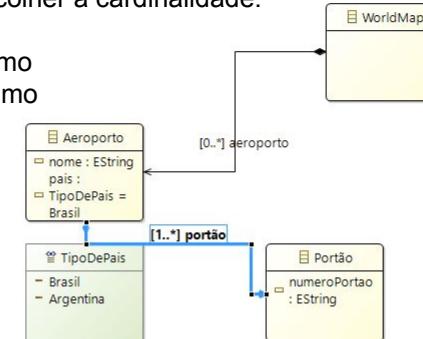
Lower Bound: ?
 Upper Bound: ?

Behavior

- Derived Changeable Unsettable ?
 Transient Volatile ?

Nas propriedades podemos escolher a cardinalidade:

LowerBound representa o mínimo
 UpperBound representa o máximo





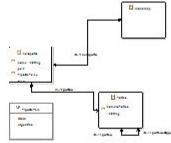
Quick A

Model Explorer

type filter text

- ✓ AeropontoDSL
 - Project Dependencies
 - src
- > JRE System Library [JavaSE-1.8]
- > Plug-in Dependencies
- ✓ META-INF
 - MANIFEST.MF
- ✓ model
 - aeroportoDSLaIRD
 - ✓ aeroportoDSL.ecore
 - aeroportoDSL
 - Aeroponto
 - TipoDePais
 - WorldMap
 - Portão

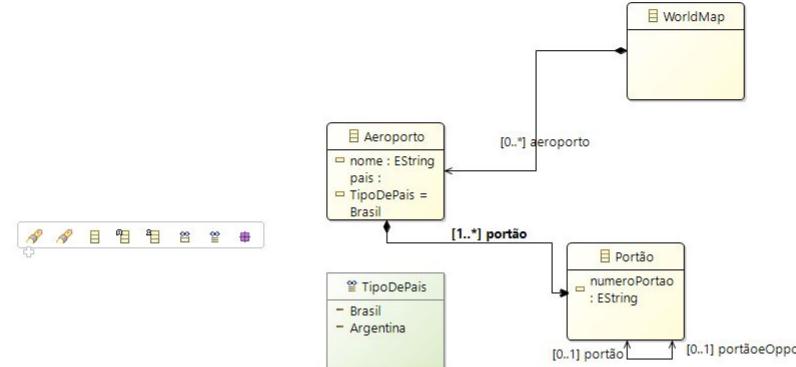
Outline



*aeroportoDSL

100%

Quick A



Properties

aeroportoDSL

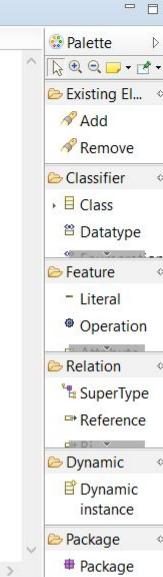
Model

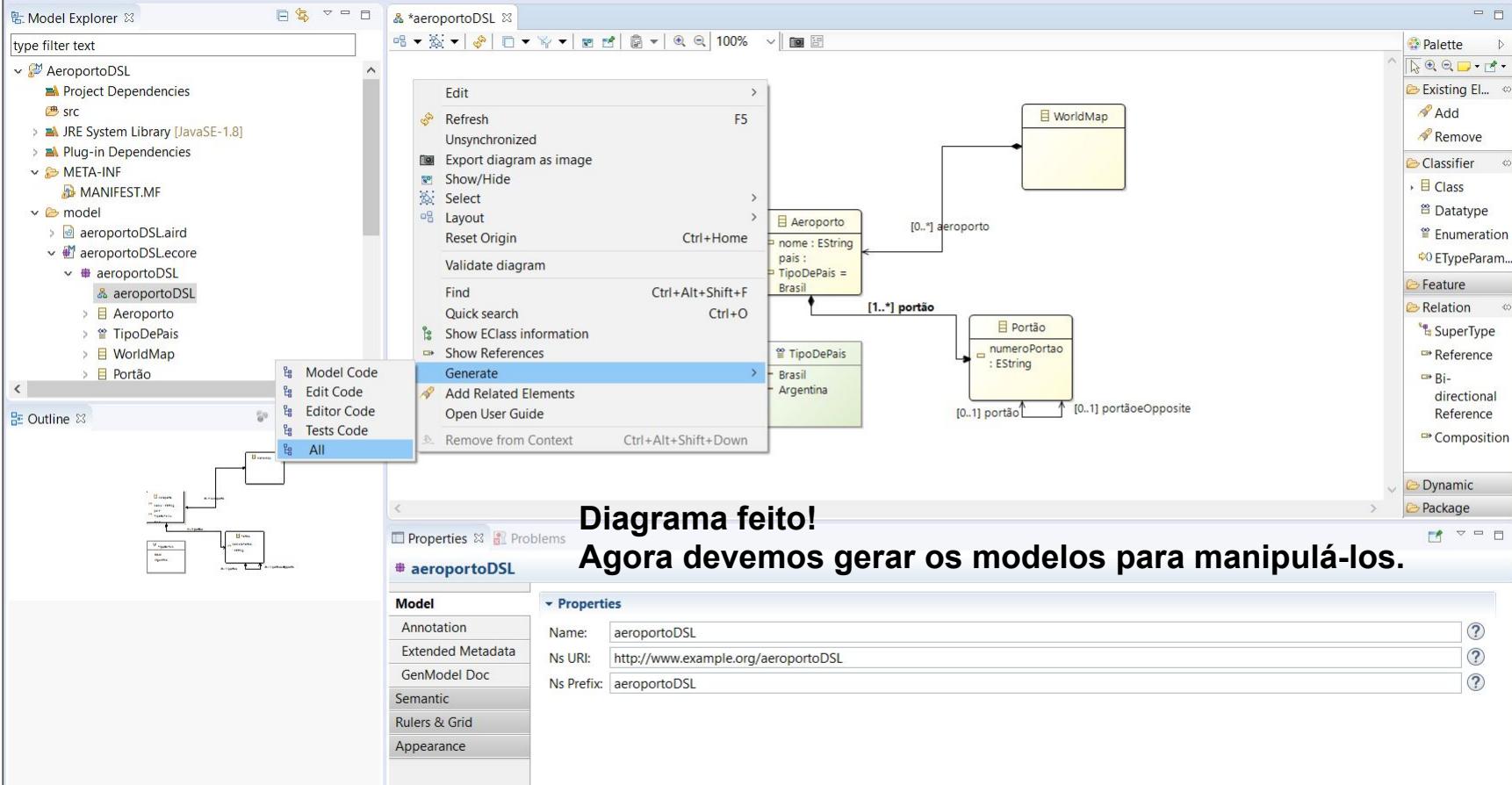
Properties

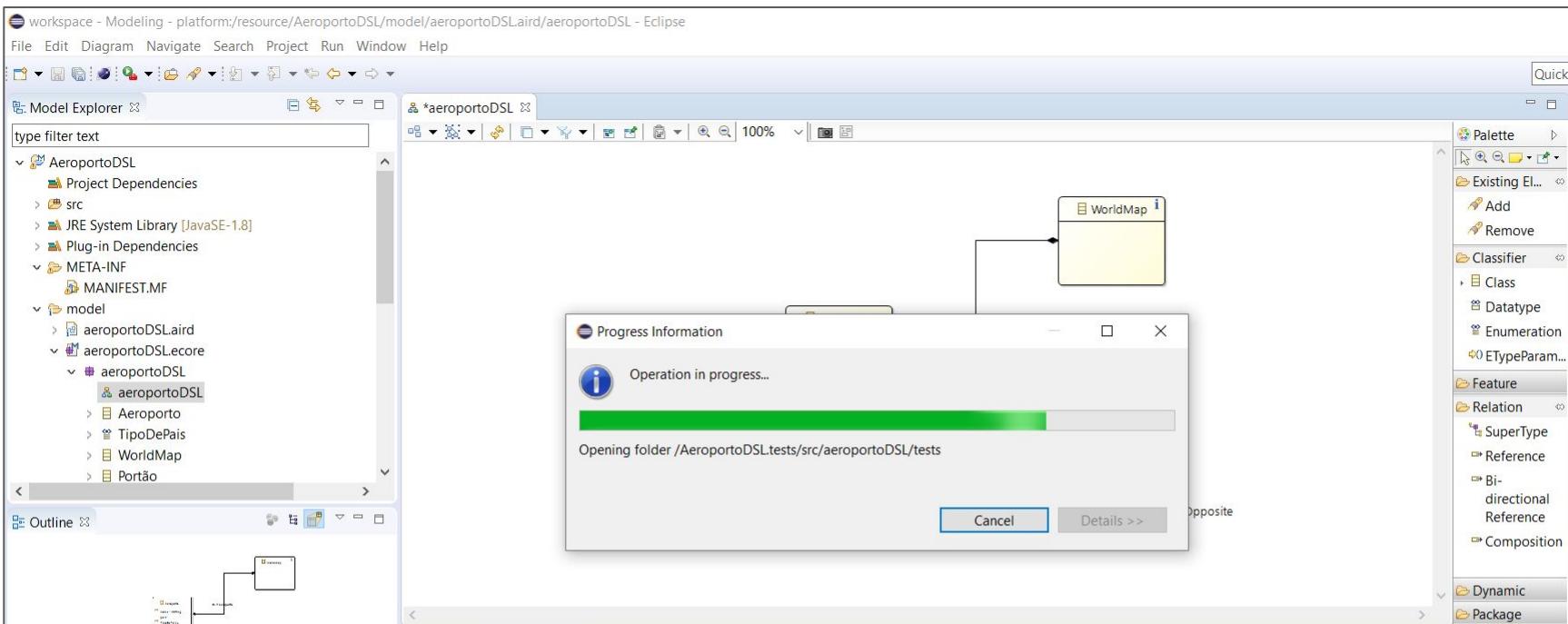
Name:	aeroportoDSL
Ns URI:	http://www.example.org/aeroportoDSL
GenModel Doc	
Semantic	

Rulers & Grid

Appearance









Model Explorer

type filter text

AeroportoDSL

- Project Dependencies
- src
- JRE System Library [JavaSE-1.8]
- Plug-in Dependencies
- META-INF
- model



Clique com o lado direito do Mouse no pacote Model

Alt+Shift+W

Ctrl+C

Ctrl+V

Delete

Ctrl+Alt+Shift+Down

F2

F5

Alt+Enter

Run Configurations...

Problems

5, 4 warnings, 3 others

option

Errors (3 items)

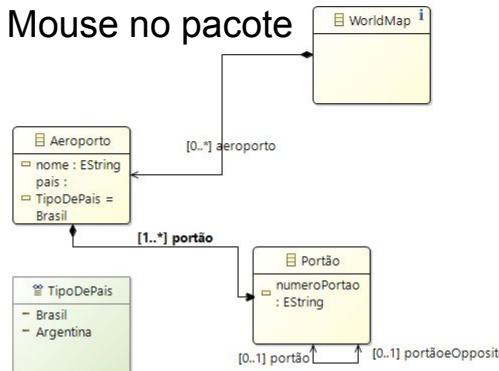
Warnings (4 items)

Infos (3 items)

The Cenario class is never used

The Chef class is never used

The WorldMap class is never used



Agora devemos rodar a aplicação!

Quick

Palette

Existing El...

Add

Remove

Classifier

Class

Datatype

Enumeration

ETypeParam...

Feature

Relation

SuperType

Reference

Bi-directional

Reference

Composition

Dynamic

Package

Resource

caird

grupo.aird

aeroportoDSL...

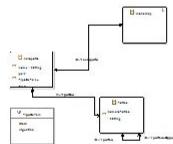


Model Explorer

type filter text

- ✓ AeroportoDSL
 - Project Dependencies
 - > src
 - > JRE System Library [JavaSE-1.8]
 - > Plug-in Dependencies
 - > META-INF
 - > model
 - build.properties
 - plugin.properties
 - plugin.xml
 - > AeroportoDSEdit
 - > AeroportoDSLEditor
 - > AeroportoDSL.tests
 - > c
 - > cedit
 - > ceditor

Outline



Run Configurations

Create, manage, and run configurations

Create a configuration to launch an Eclipse application.

Name: Aeroporto Teste

Main Arguments Plug-ins Configuration Tracing Environment Common

Workspace Data

Location: \${workspace_loc}./..runtime-New_configuration(1)

Clear: workspace log only

Ask for confirmation before clearing

Configure defaults...

Program to Run

Run a product: org.eclipse.platform.ide

Run an application: org.eclipse.ui.ide.workbench

Java Runtime Environment

Java executable: default java

Execution environment: JavaSE-1.8 (jre1.8.0_73) Environments...

Runtime JRE: jre1.8.0_73 Installed JREs...

Bootstrap entries:

Revert Apply

Run Close

Filter matched 11 of 11 items

No properties available



Palette

Existing El... Add Remove

Classifier

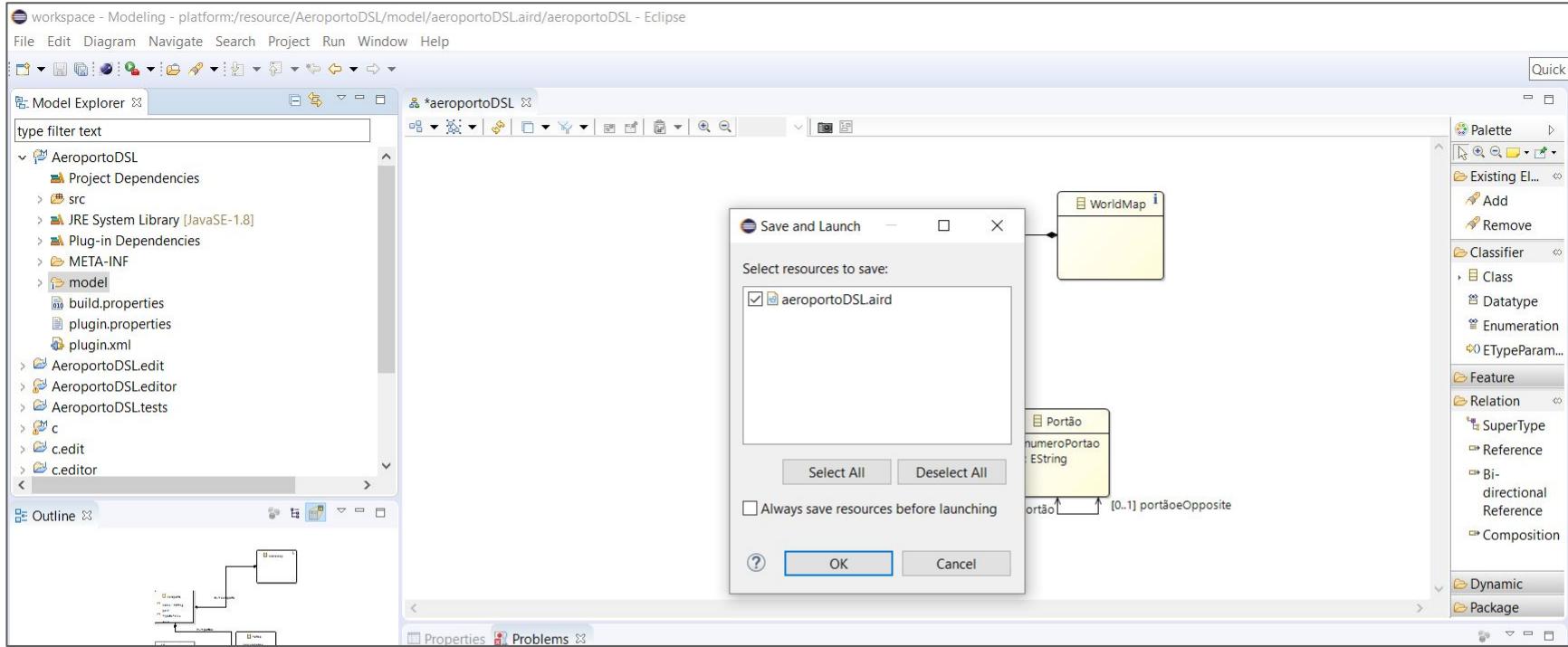
Class Datatype Enumeration ETypeParam...

Feature

Relation

SuperType Reference Bi-directional Reference Composition

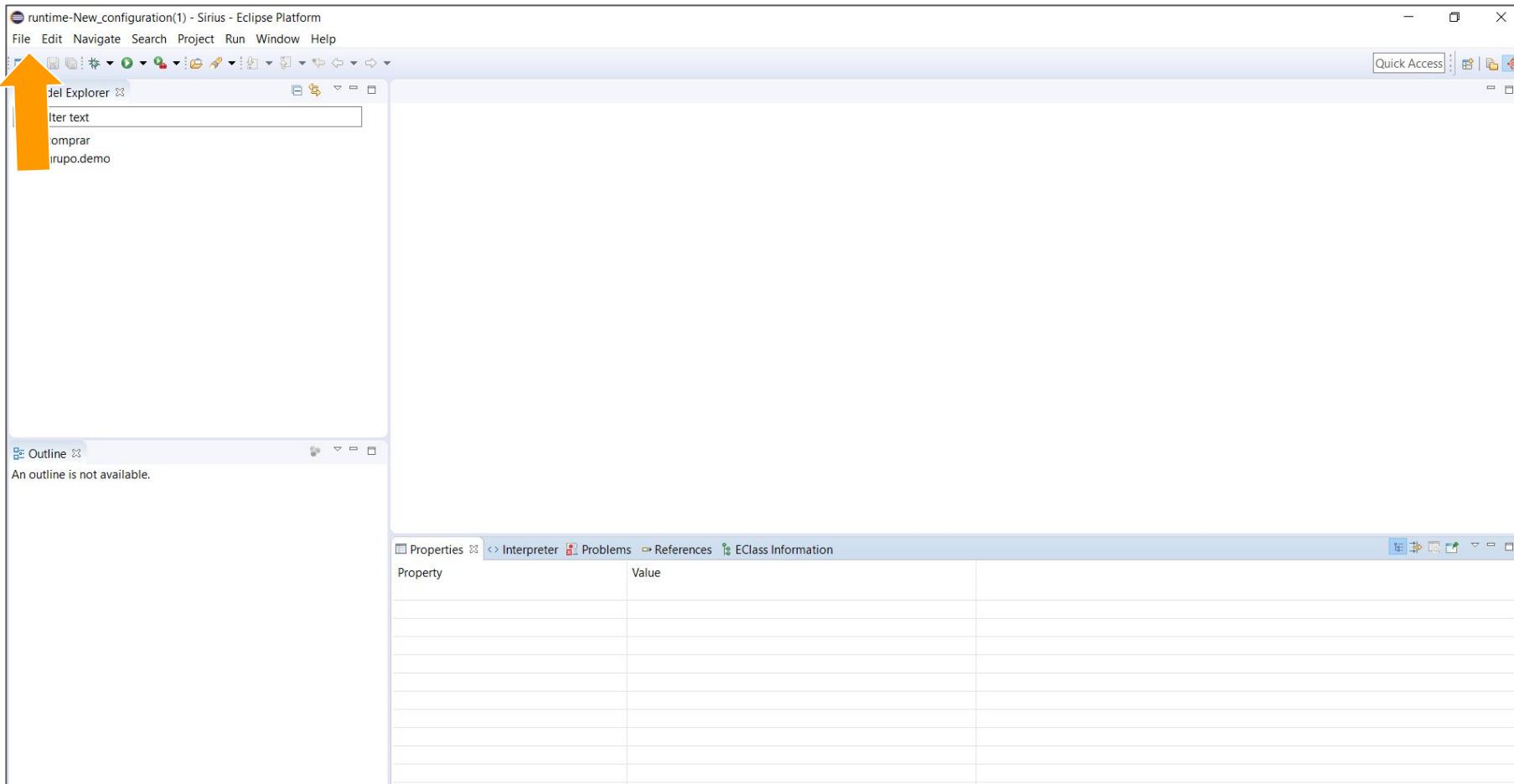
Dynamic Package

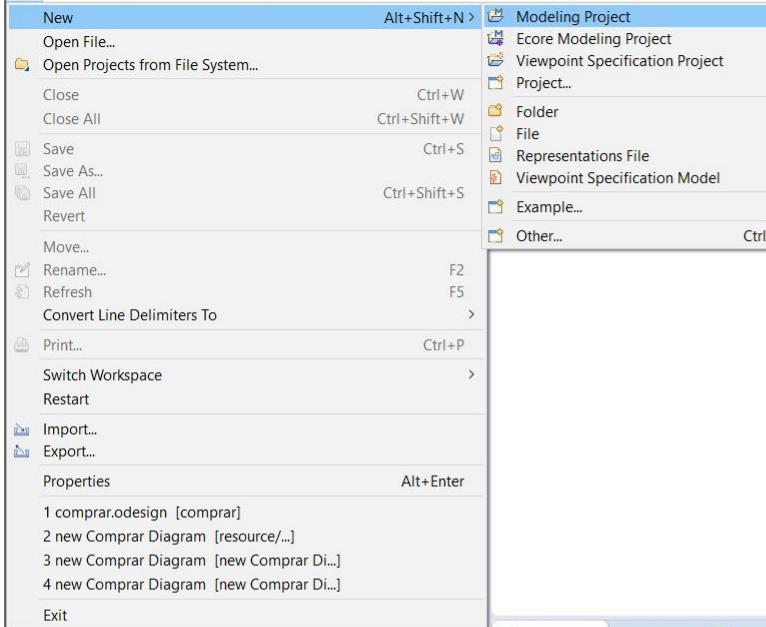


SIRIUS - Modelos Gerados

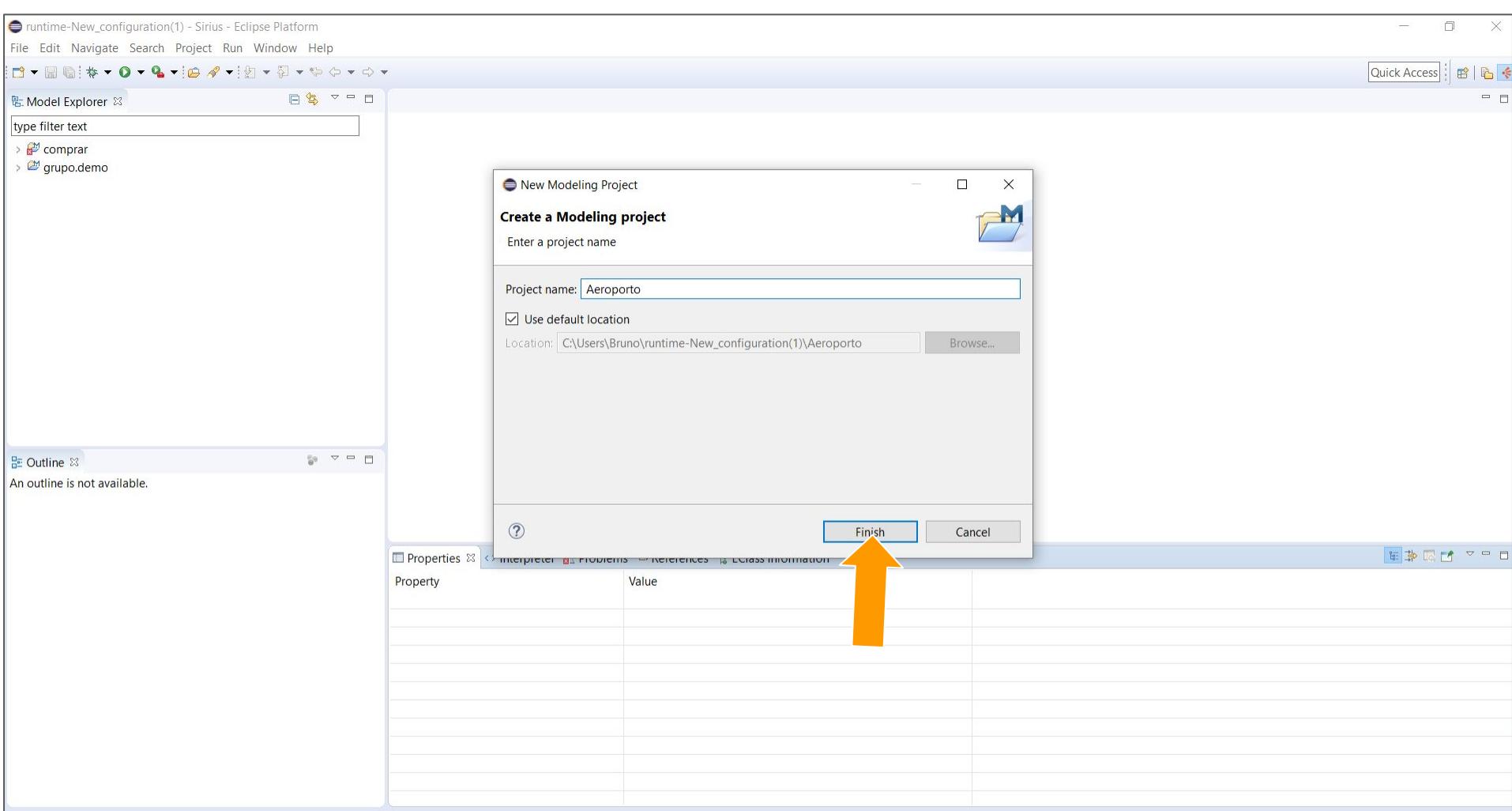
Os modelos abaixo são todos os modelos gerados no tutorial até este momento:

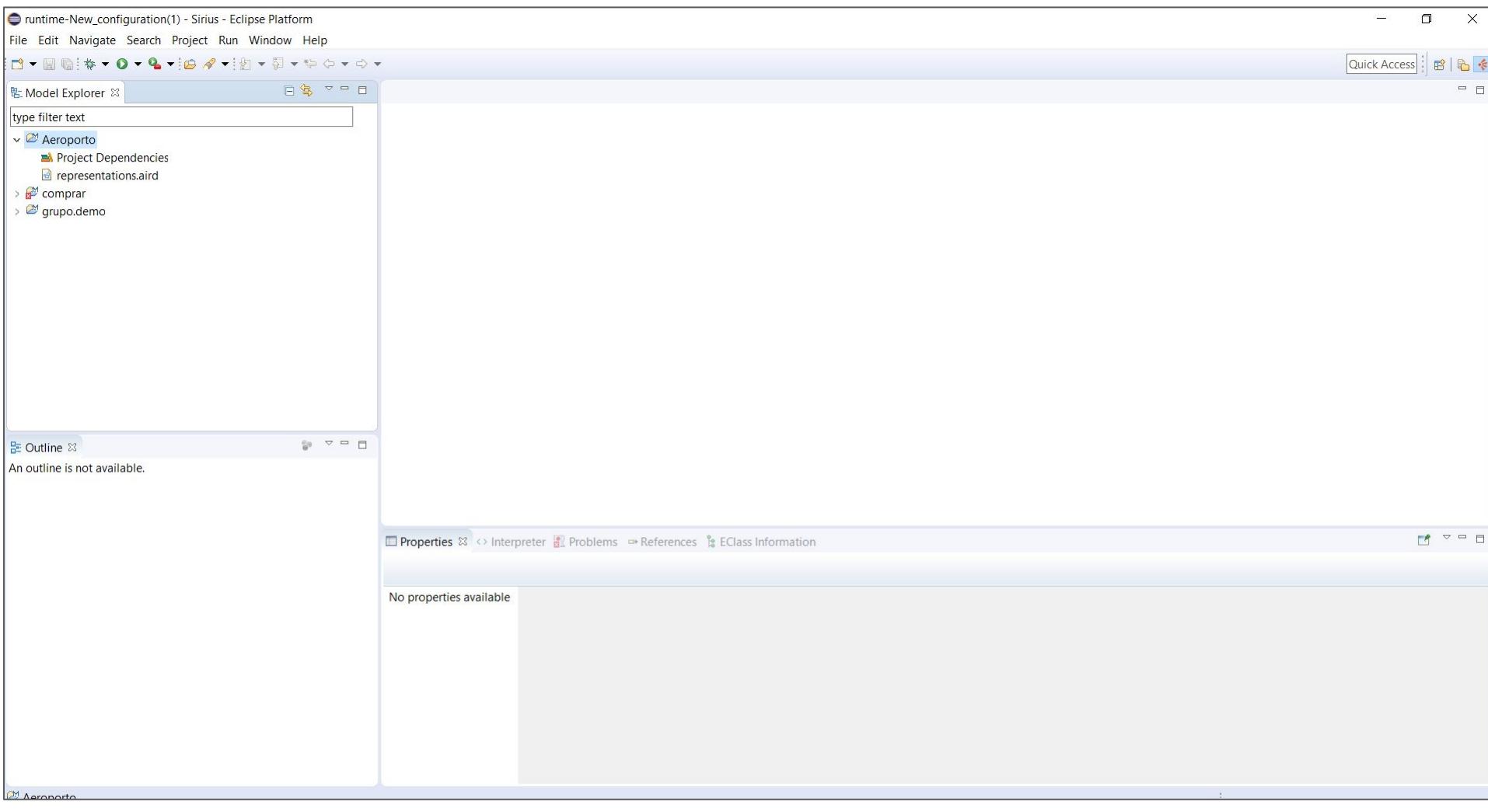
- .ecore – Metamodelo EMF
- .genmodel – Códigos gerados do modelo EMF
- .aird – Representação da instância do modelo da Sirius

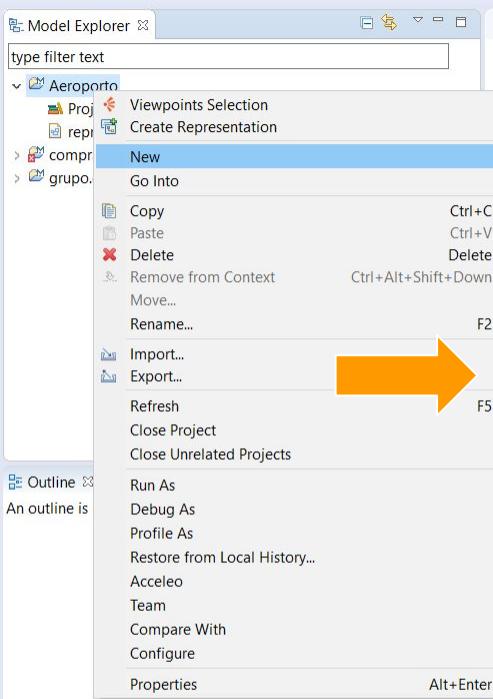




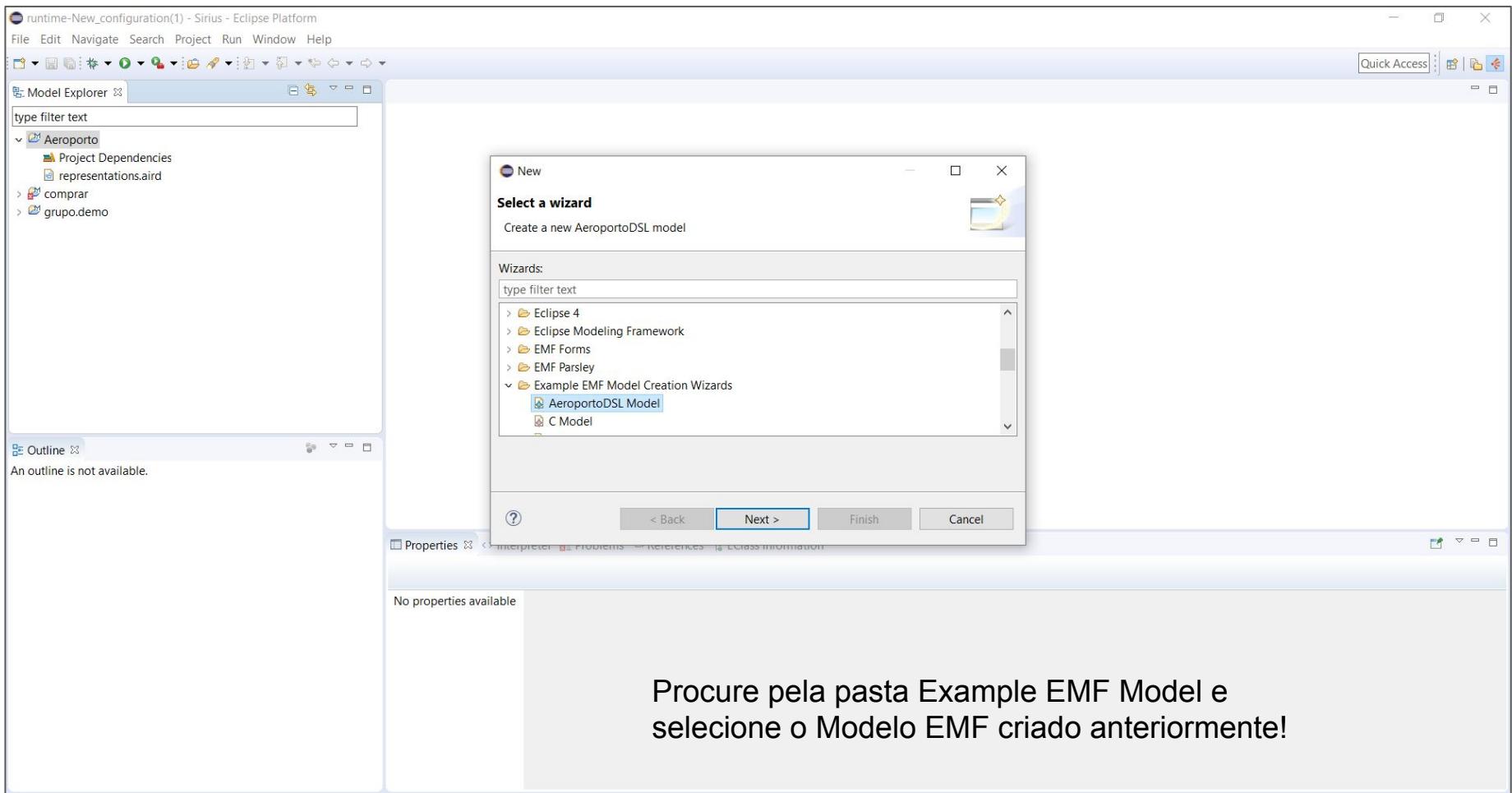
The screenshot shows the Sirius workspace. At the top, there are tabs for 'Properties', 'Interpreter', 'Problems', 'References', and 'EClass Information'. Below these tabs is a table with two columns: 'Property' and 'Value'. The 'Property' column has four rows, and the 'Value' column has four corresponding rows. To the right of the table are several small icons for navigating between views. The main workspace area is currently empty.

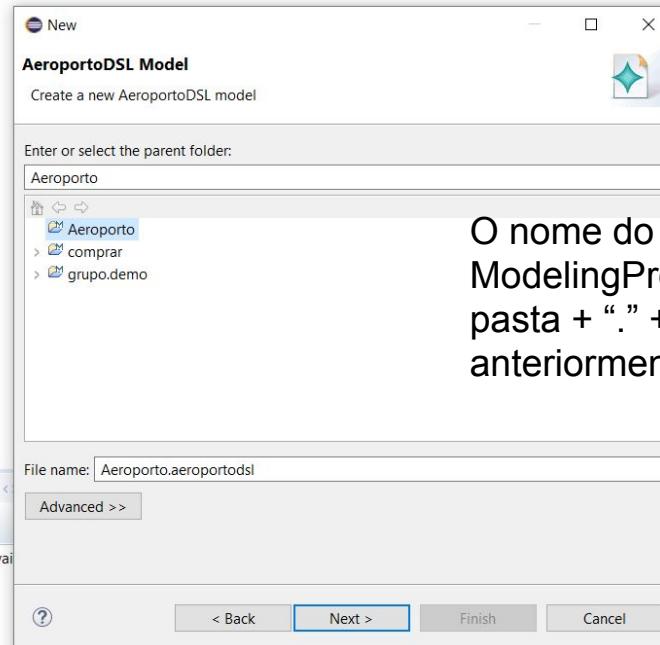
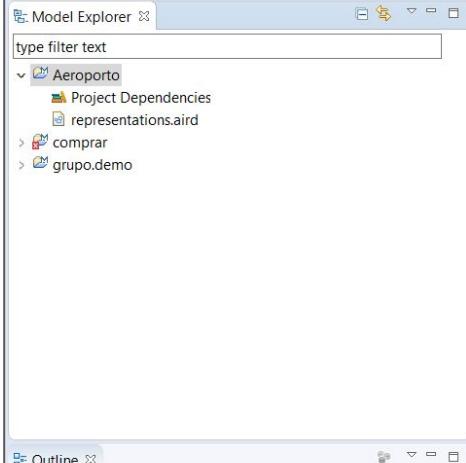




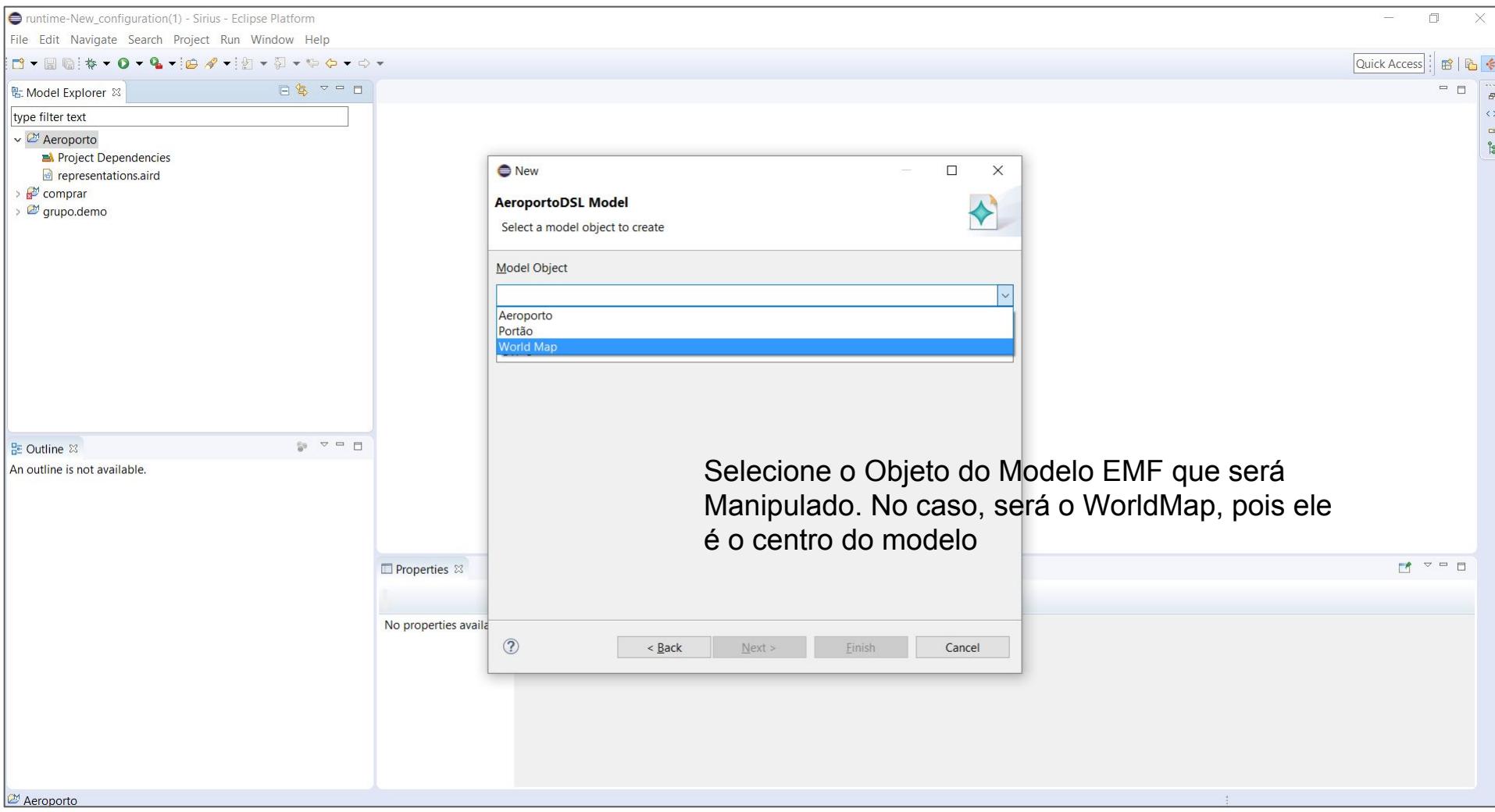


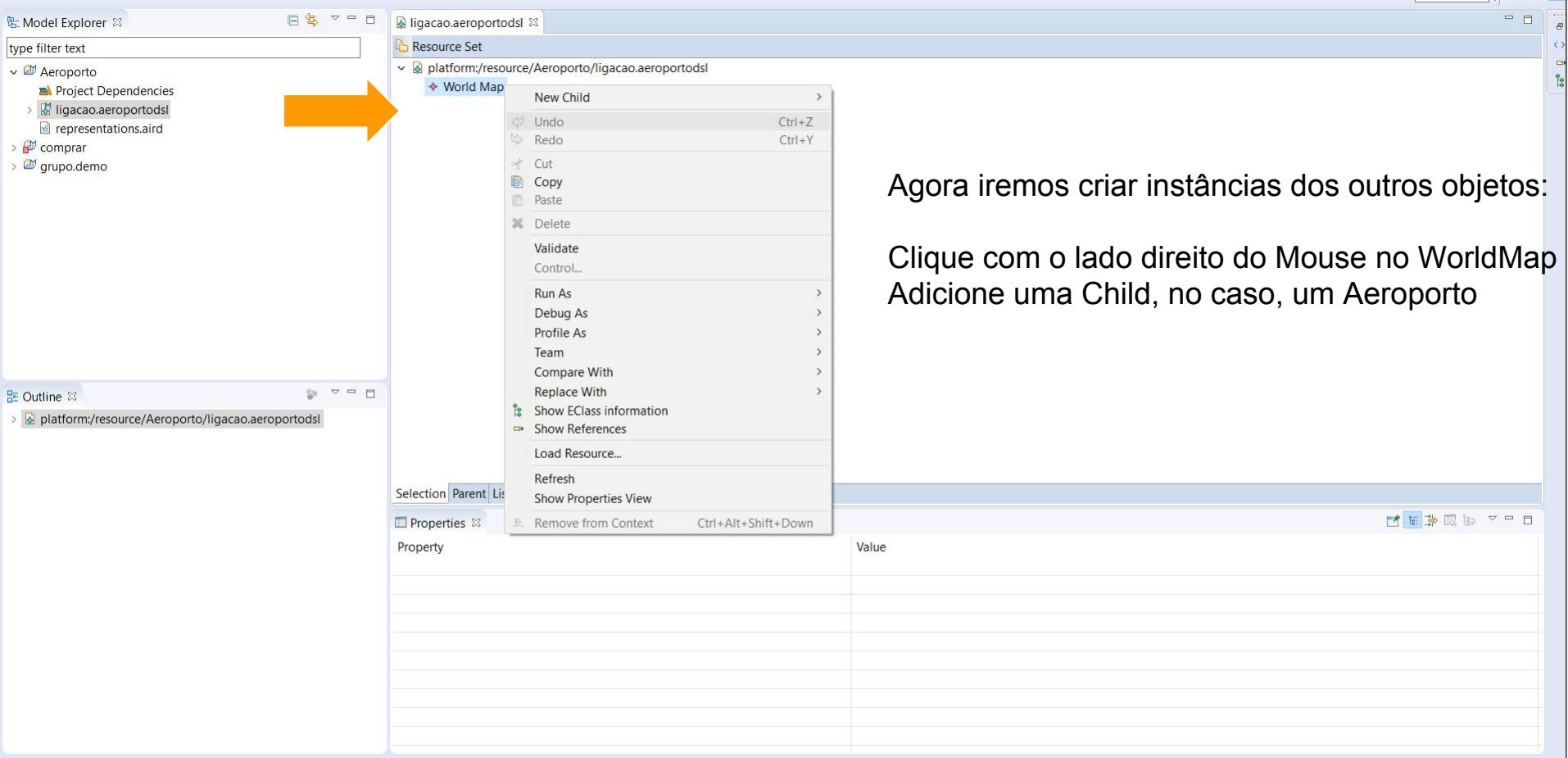
Clique com o lado direito do Mouse em cima do Modeling Project criado e vá em Other

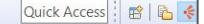




O nome do Modelo criado na pasta ModelingProject (Aeroporto), será o nome da pasta + “.” + nome do modelo EMF criado anteriormente. Ou seja: Aeroporto.aeroportodsl







Model Explorer

type filter text

- ✓ Aeroponto
 - Project Dependencies
- > ligacao.aeroportodsl
- representations.aird
- > comprar
- > grupo.demo

*ligacao.aeroportodsl

Resource Set

- platform/resource/Aeroporto/ligacao.aeroportodsl
 - ✓ World Map

Aeroponto

- Portão
 - New Child
 - New Sibling
 - Undo New Aeroporto Ctrl+Z
 - Redo Ctrl+Y
 - Cut
 - Copy
 - Paste
 - Delete
 - Validate
 - Control...
 - Run As
 - Debug As
 - Profile As
 - Team
 - Compare With
 - Replace With
 - Show EClass information
 - Show References
 - Load Resource...
 - Refresh
 - Show Properties View
- Remove from Context Ctrl+Alt+Shift+Down

Selection Parent

Properties

Property

Nome

País

Value

Brasil

runtime-New_configuration(1) - Sirius - Aeroporto/ligacao.aeroportodsl - Eclipse Platform

File Edit Navigate Search Project AeroportoDSL Editor Run Window Help

Model Explorer

type filter text

Aeroporto

- Project Dependencies
- ligacao.aeroportodsl
- representations.ard

comprar

grupo.demo

*ligacao.aeroportodsl

Resource Set

platform:/resource/Aeroporto/ligacao.aeroportodsl

- World Map
- Aeroporto
 - Portão
 - Aeroporto
 - Portão

Para adicionar o Objeto Portão clique em cima de Aeroporto e adicione outra Child

Outline

platform:/resource/Aeroporto/ligacao.aeroportodsl

Selection Parent List Tree Table Tree with Columns

Properties

Property	Value
Nome	Salgado Filho
Pais	Brasil

The Name of the Aeroporto

Edite as informações necessárias nas Propriedades



Model Explorer

type filter text

- Aeroporto
 - Project Dependencies
 - ligacao.aeroportodsl
 - representations.aird
- comprar
- grupo.demo

Resource Set

*ligacao.aeroportodsl

platform:/resource/Aeroporto/ligacao.aeroportodsl

World Map

- Aeroporto Salgado Filho
 - Portão 16
- Aeroporto Ministro Pistarini
 - Portão



Outline

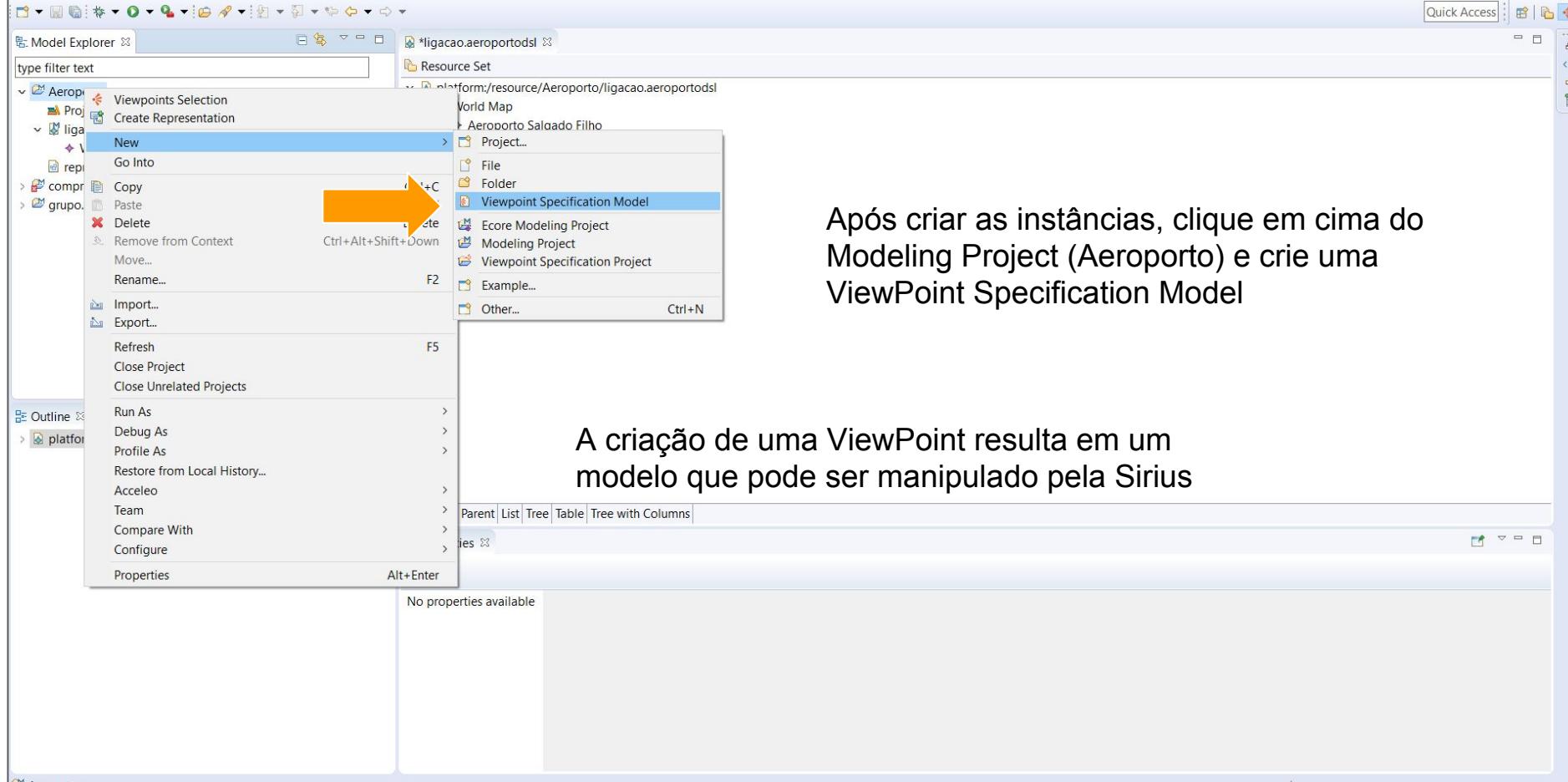
platform:/resource/Aeroporto/ligacao.aeroportodsl

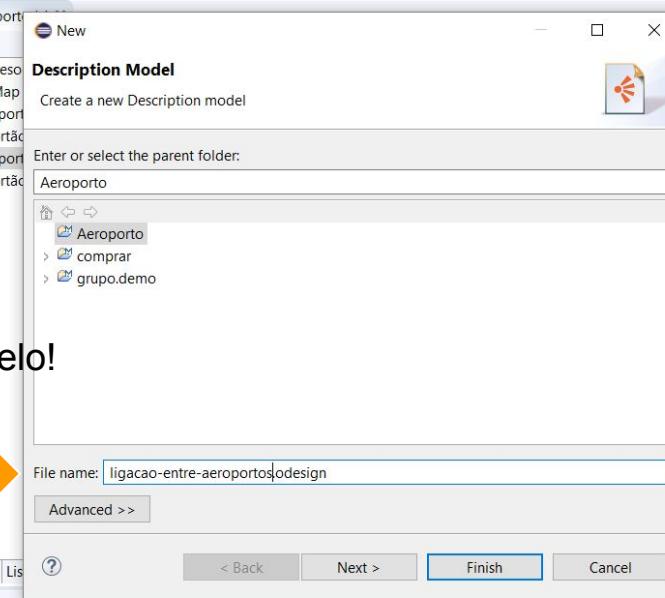
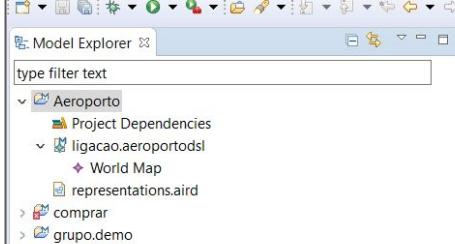
Selection Parent List Tree Table Tree with Columns

Properties

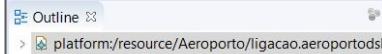
Property	Value
Nome	Ministro Pistarini
Pais	Argentina

The País of the Aeroporto

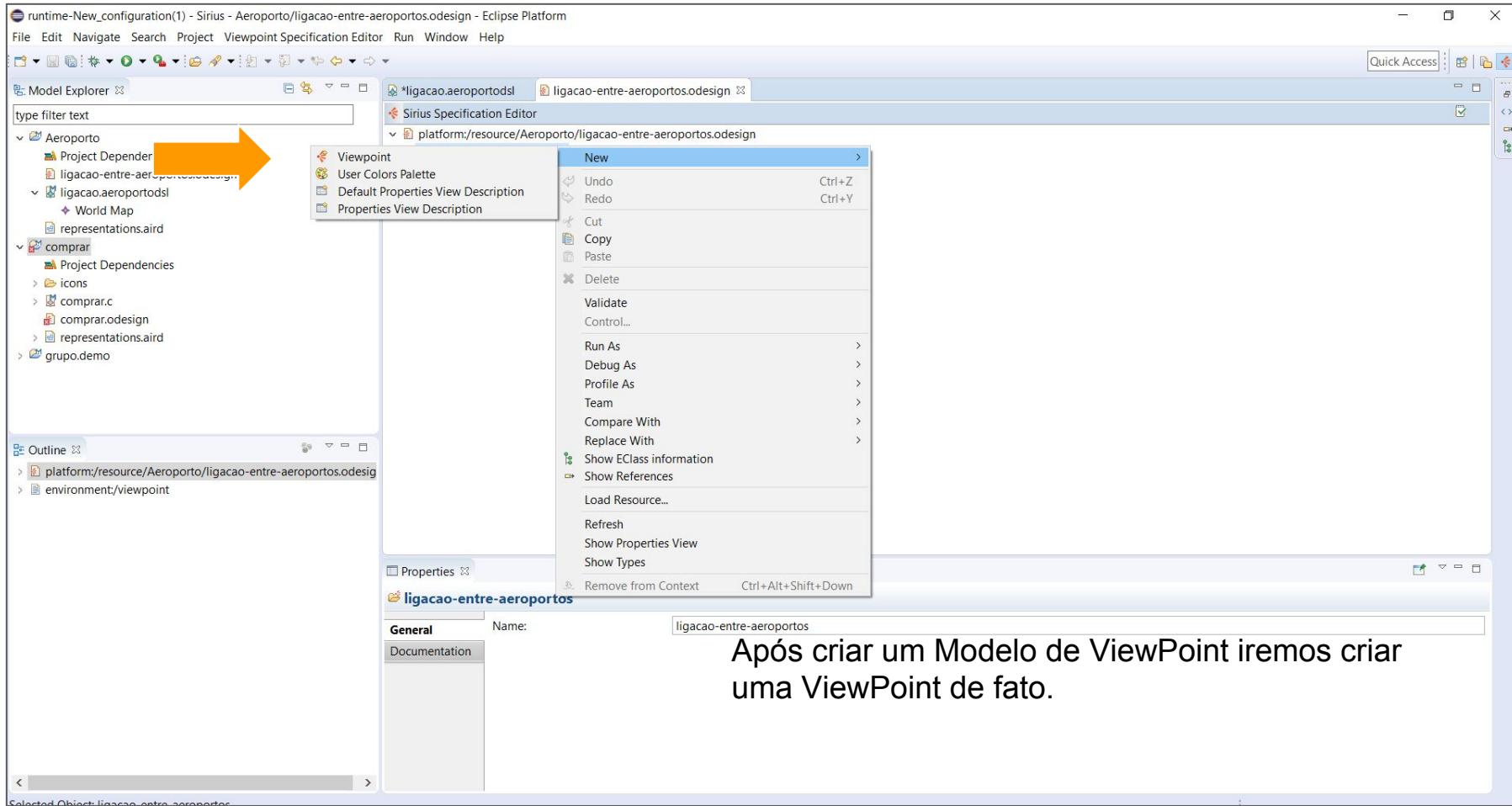




Escolha um nome para seu modelo!



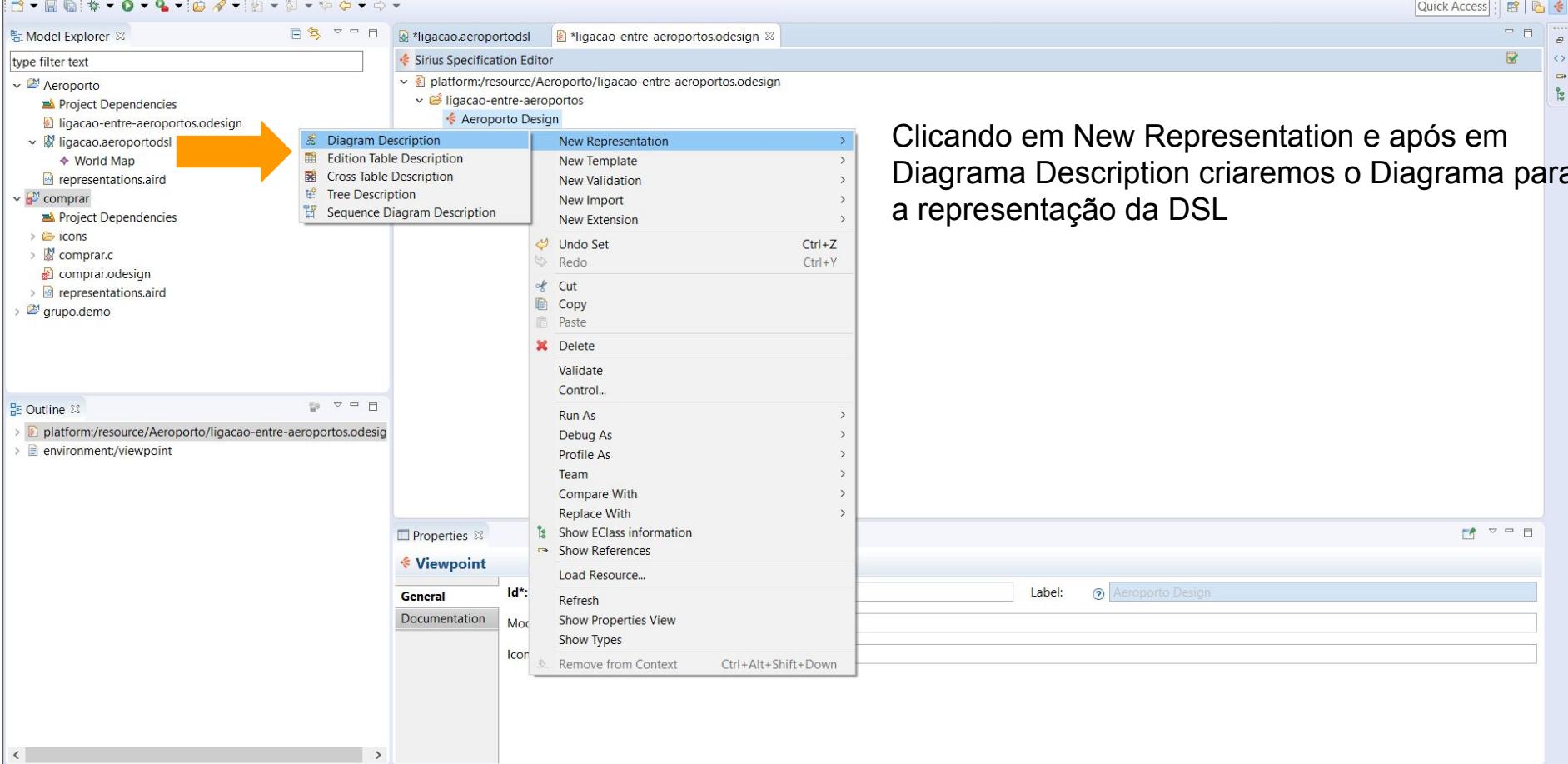
A manipulação do modelo Sirius é feito no arquivo .odesign





ID É O NOME DA VIEWPOINT!

The screenshot shows the Properties view for a Viewpoint. The 'Viewpoint' tab is selected. Under the 'General' tab, the 'Id*' field is set to 'Aeroporto Design'. A tooltip explains: 'The identifier of this element. Must be unique. Changing this identifier will break existing user models which reference the old identifier.' The 'Documentation' tab is also visible. The bottom part of the properties view shows sections for 'Model File Extension' and 'Icon'.



Clicando em New Representation e após em Diagrama Description criaremos o Diagrama para a representação da DSL

Model Explorer

type filter text

- Aeroporto
 - Project Dependencies
 - ligacao-entre-aeroportos.odesign
- ligacao.aeroportodsl
 - World Map
 - representations.aird
- comprar
 - Project Dependencies
 - icons
 - comprar.c
 - comprar.odesign
 - representations.aird
- grupo.demo

Sirius Specification Editor

*ligacao.aeroportodsl *ligacao-entre-aeroportos.odesign

Sirius Specification Editor

platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesign

ligacao-entre-aeroportos

Aeroporto Design

Aeroporto Diagram

Id = nome do Diagrama
Domain Class = Classe do diagrama EMF que estamos modelando

“nomeDoArquivoEMF” + “.” + “nomeClasse”
aeroportoDSL.Aeroporto

Properties

Diagram Description

General Documentation Behavior Metamodels Advanced

Id*: Aeroporto Diagram

Domain Class*: aeroportoDSL.Aeroporto

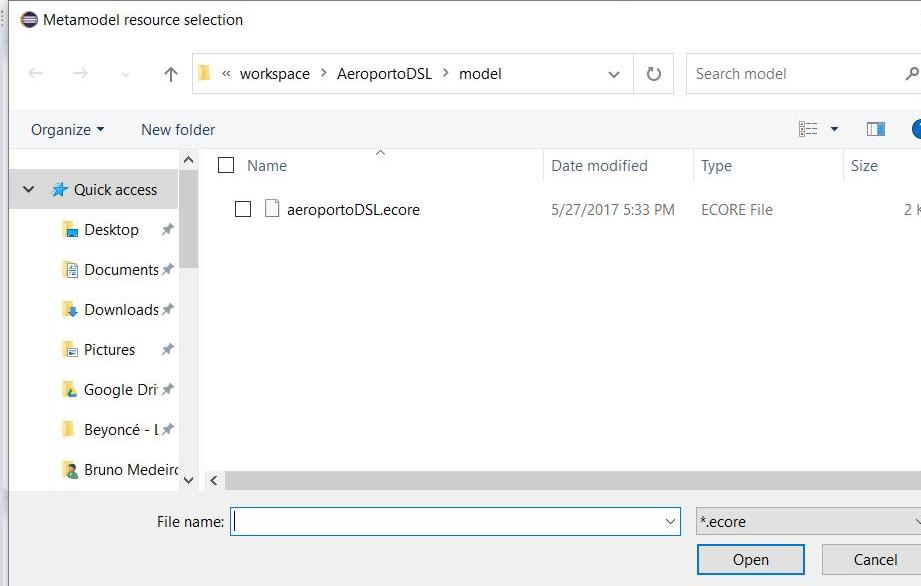
Initialization*:

Enable Popup Bars:

Precondition Expression:

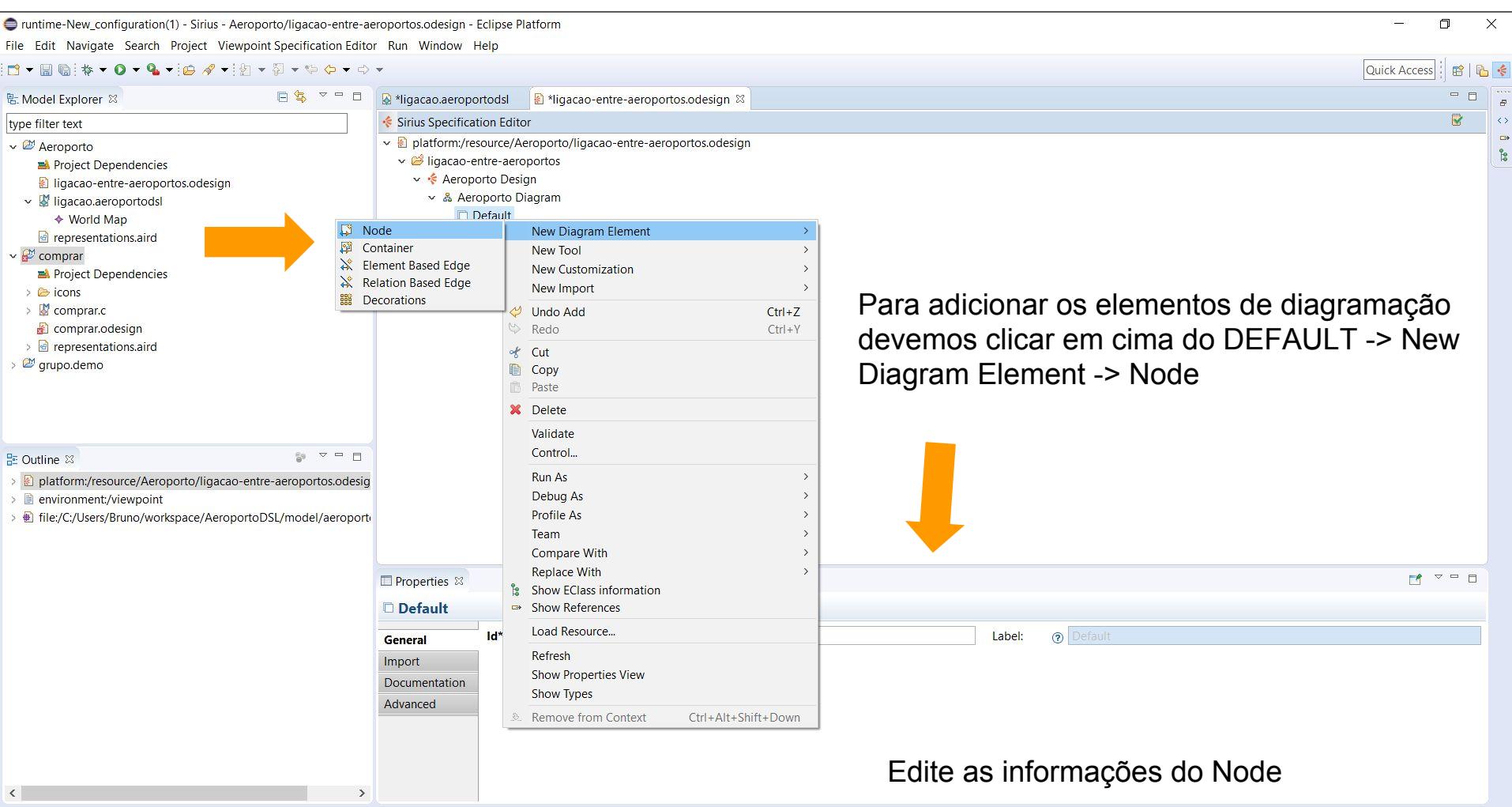
Default Concern:





Adicione o MetaModelo clicando em MetaModels
-> Add from filesystem

The screenshot shows the 'Properties' view for a diagram. The 'Diagram Description' tab is active. In the 'Metamodels' section, there is a table titled 'Selected Metamodels' with columns 'Name', 'nsURI', and 'metamodel URI'. The table is currently empty. To the right of the table, there is a toolbar with four buttons: 'Add from registry', 'Add from workspace', 'Add from filesystem' (which has a large orange arrow pointing to it), and 'Remove'.



The screenshot shows the Sirius Specification Editor interface. In the center, a context menu is open over a node labeled "Aeroporto". The menu is titled "Node" and includes options like "Basic Shape", "Workspace Image", "Properties", and "General". The "General" tab is selected. The "Workspace Image" option is highlighted in blue, indicating it is the active choice. The "Properties" view on the right shows the "Label" field set to "Aeroporto".

Node

- Basic Shape
- Workspace Image
- Properties
- General
- Import
- Documentation
- Behavior
- Advanced

New Diagram Element >
New Style >
New Conditional Style
New Import
Refactor
Undo Set
Redo Ctrl+Z
Cut
Copy
Paste
Delete
Validate
Control...
Run As
Debug As
Profile As
Team
Compare With
Replace With
Show EClass information
Show References
Load Resource...
Refresh
Show Properties View
Show Types
Remove from Context Ctrl+Alt+Shift+Down

Aeroporto

Todo Node precisa de um Estilo!

No caso, iremos representar nossos elementos com imagens. Para isso, clique em Workspace Image

Aeroporto

File Home Share View

Pin to Quick access Copy Paste Cut Copy path Copy to Move to Copy shortcut Delete Rename New folder New item Easy access New Open Properties Select all Select none Invert selection

Clipboard Organize New Open Select

← → ↑ This PC > Windows8_OS (C:) > Users > Bruno > runtime-New_configuration(1) > Aeroporto > Search Aeroporto

Documents Downloads Pictures Google Drive Beyoncé - Lemonade (2016) Bruno Medeiros drawable model model OneDrive

This PC Desktop Documents Downloads Music Pictures Videos Windows8_OS (C:)

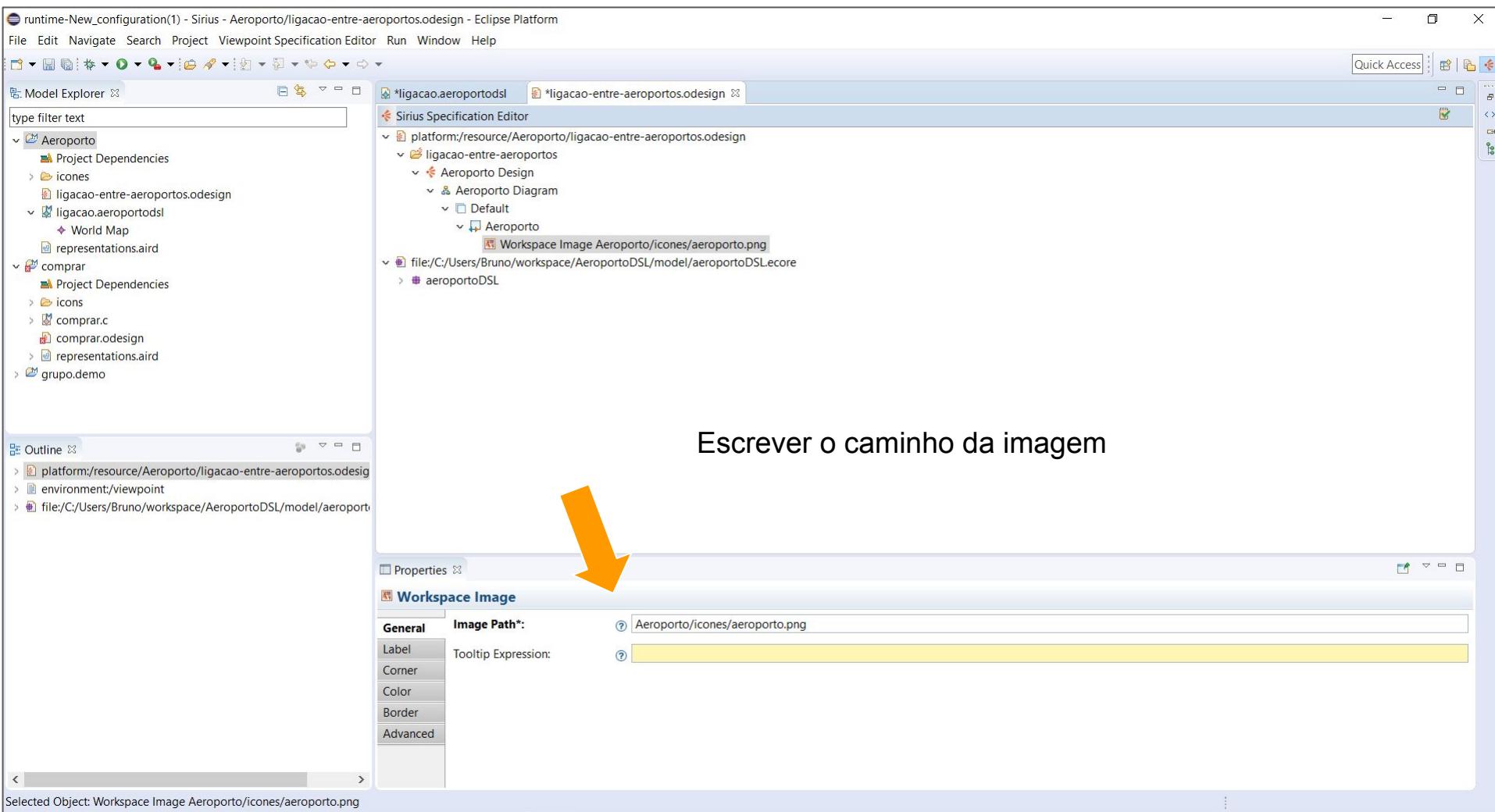
Name Date modified Type Size

icones 5/27/2017 5:53 PM File folder
 .project 5/27/2017 5:43 PM PROJECT File 1 KB
 ligacao.aeroportodsl 5/27/2017 5:43 PM AEROPORTODSL Fi... 1 KB
 ligacao-entre-aeroportos.odesign 5/27/2017 5:49 PM ODESIGN File 1 KB
 representations.aird 5/27/2017 5:43 PM AIRD File 1 KB

Para adicionar as imagens ao projeto, devemos procurar a pasta que representa o Modeling Project e criar uma pasta chamada “icones”. Na pasta “icones” deve estar as imagens usadas na representação.

REFRESH!

Para mostrar a pasta criada no workspace o botão F5 precisa ser pressionado!!



Model Explorer

type filter text

- Aeroporto
 - Project Dependencies
 - icons
 - ligacao-entre-aeroportos.odesign
- ligacao.aeroportodsl
 - World Map
 - representations.aird
- comprar
 - Project Dependencies
 - icons
 - comprar.c
 - comprar.odesign
 - representations.aird
- grupo.demo

Outline

- platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesig
- environment/viewpoint
- file:/C/Users/Bruno/workspace/AeroportoDSL/model/aeroport

Sirius Specification Editor

*ligacao.aeroportodsl *ligacao-entre-aeroportos.odesign

platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesign

- Aeroporto Design
 - Aeroporto Diagram
 - Default
 - Aeroporto
 - Workspace Image Aeroporto/icones/aeroporto.png
- file:/C/Users/Bruno/workspace/AeroportoDSL/model/aeroportoDSL.ecore
- aeroportoDSL

Após adicionar o caminho da Imagem, clique em Label e edite a informação Label Expression.

Escreva a classe a qual a imagem representa.

nomeDoProjetoEMF . nomeDaClasse



Properties

Workspace Image

General Label Size: 8

Label Format: Bold Italic Underline Strike through

Corner

Color

Border

Advanced

Label Alignment: Left Center Right

Show Icon:

Label Expression:

The screenshot shows the Eclipse Platform interface for the Sirius tool, specifically for a project named "Aeroporto/ligacao-entre-aeroportos.odesign".

Model Explorer: Shows the project structure. The root node is "Aeroporto", which contains "Project Dependencies", "icons", and "ligacao-entre-aeroportos.odesign". This file contains "Aeroporto Design", "Aeroporto Diagram", "Default", "Aeroporto" (with a workspace icon), and "Portao" (with a workspace icon). There is also a reference to "file:/C:/Users/Bruno/workspace/AeroportoDSL/model/aeroportoDSLecore". Other projects listed include "comprar", "grupo.demo", and "comprar.c".

Sirius Specification Editor: The active editor shows the "platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesign" specification. It displays the "Aeroporto Design" and "Aeroporto Diagram" sections.

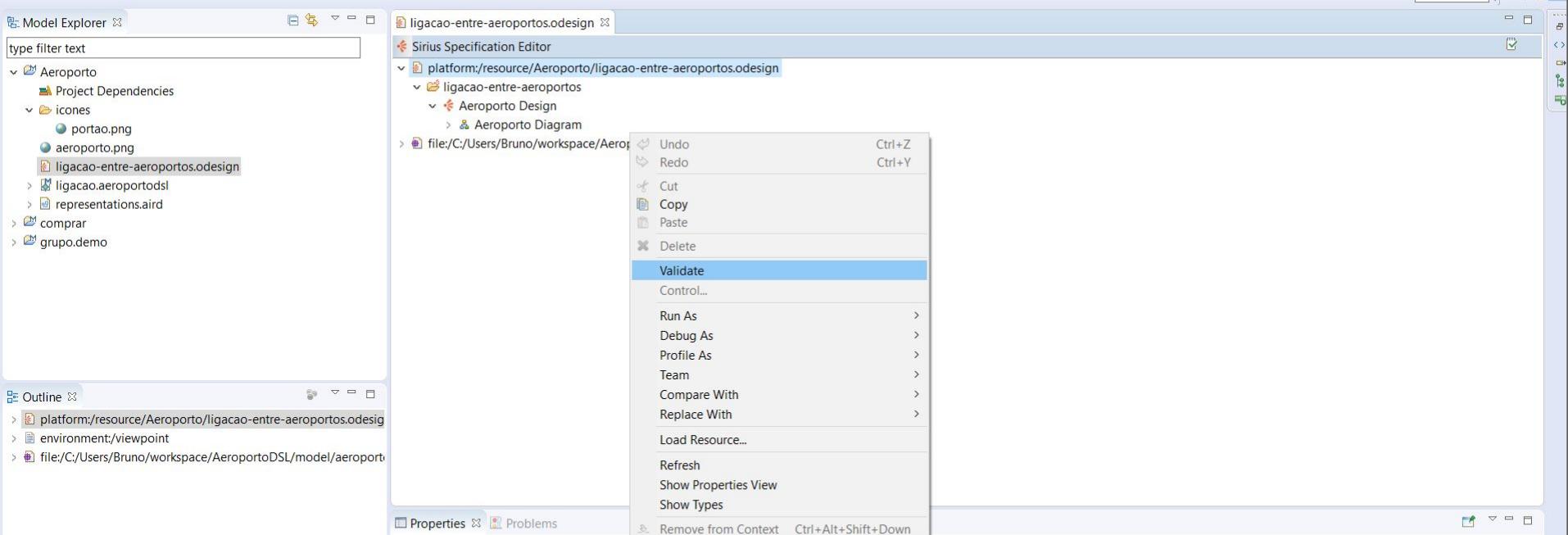
Outline: Shows the outline of the selected object, which is "platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesign".

Properties: The properties view indicates that "Properties are not available." for the selected object.

Bottom Status Bar: Shows the selected object as "Selected Object: platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesign". The system tray indicates battery level at 100%, signal strength, and the date/time as "5:57 PM 5/27/2017".

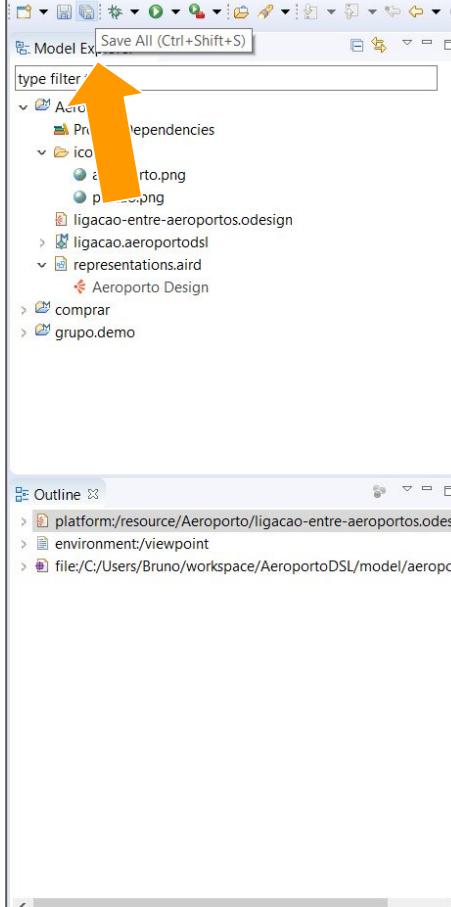
Section Header:

Passos repetidos para o objeto Portão

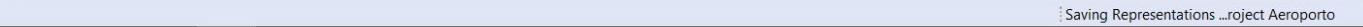
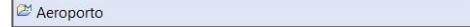
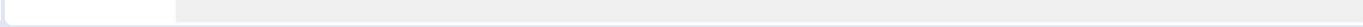
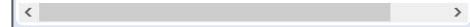
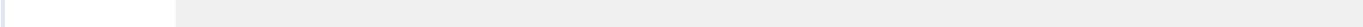
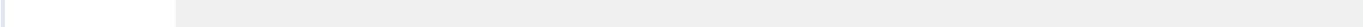
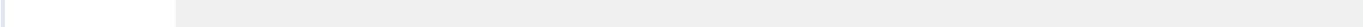
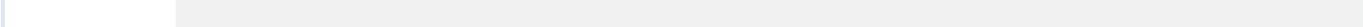
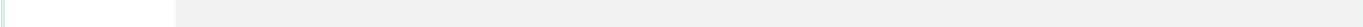
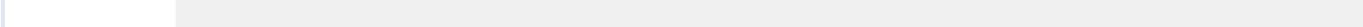
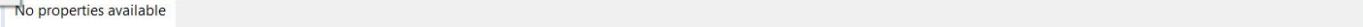
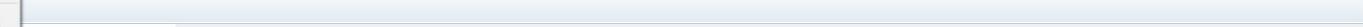
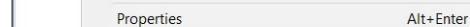
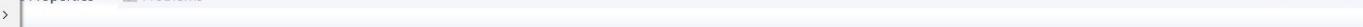
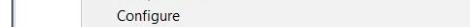
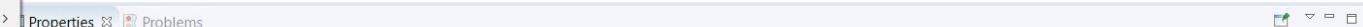
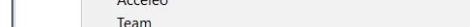
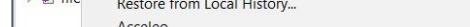
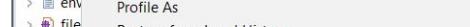
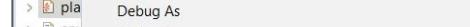
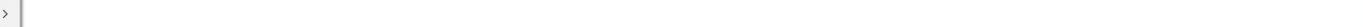
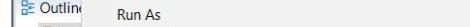
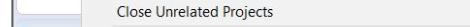
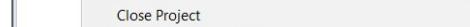
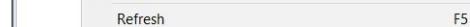
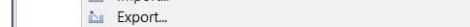
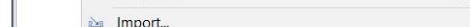
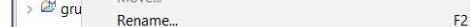
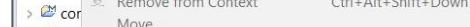
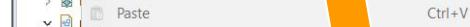
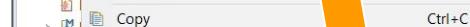
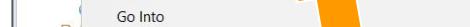
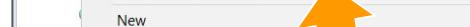
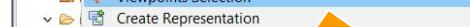
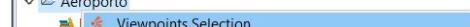
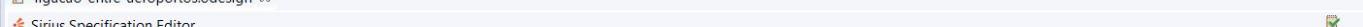
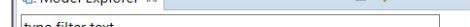
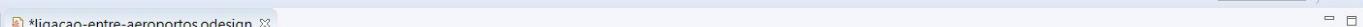
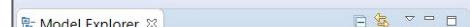


Valida a Especificação!

Direito no Mouse -> Validate



SALVE A ESPECIFICAÇÃO!!





Model Explorer

- type filter text
- Aeroporto
 - Project Dependencies
 - icones
 - ligacao-entre-aeroportos.odesign
 - ligacao.aeroportodsl
 - World Map
 - representations.aird
 - comprar
 - Project Dependencies
 - icons
 - comprar.c
 - comprar.odesign
 - representations.aird
 - grupo.demo

Outline

- platform/resource/Aeroporto/ligacao-entre-aeroportos.odesig
- environment/viewpoint
- file/C:/Users/Bruno/workspace/AeroportoDSL/model/aeropo

Sirius Specification Editor

platform/resource/Aeroporto/ligacao-entre-aeroportos.odesign

ligacao-entre-aeroportos

Aeroporto Design

Aeroporto Diagram

Default

Viewpoints Selection

Selected viewpoints

Change viewpoints selection status (see tooltip for details about each viewpoint)

- Aeroporto Design
- Comprar Design
- D



OK

Cancel

Properties

Problems

No properties available

Escolha a ViewPoint criada!

Agora iremos criar o Diagrama que representa a modelagem

Sirius Specification Editor

Create a new representation

Select a representation type

Aeroporto Design

?

< Back

Next >

Finish

Cancel

No properties available

Aeroporto

Sirius Specification Editor

platform/resource/Aeroporto/ligacao-entre-aeroportos.odesign

Aeroporto Design

Create Representation Wizard

Create a new representation

Select a representation type

type filter text

Aeroporto Design

Aeroporto Diagram

Next >

No properties available

Model Explorer

type filter text

Aeroporto

Project Dependencies

icons

ligacao-entre-aeroportos.odesign

ligacao.aeroportodsl

World Map

representations.aird

comprar

Project Dependencies

icons

comprar.c

comprar.odesign

representations.aird

grupo.demo

Outline

platform/resource/Aeroporto/ligacao-entre-aeroportos.odesign

environment/viewpoint

file:/C/Users/Bruno/workspace/AeroportoDSL/model/aeroporto

Properties

Problems

No properties available

Screenshot of the Eclipse Sirius Platform interface showing the creation of a new representation.

The workspace contains the following elements:

- Model Explorer**: Shows project structure including "Aeroporto" and "ligacao.aeroportodsl".
- Sirius Specification Editor**: Displays the "ligacao-entre-aeroportos.odesign" model, specifically the "Aeroporto Design" section.
- Create Representation** dialog box: A modal window titled "Create a new representation" asking to "Select a semantic element for the new representation".
- Outline**: Shows the selected "platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesig".
- Properties**: Shows "No properties available".

An orange arrow points to the "Finish" button in the "Create Representation" dialog box.

Sirius Specification Editor

platform/resource/Aeroporto/ligacao-entre-aeroportos.odesign

Aeroporto Design

Aeroporto

Create Representation

New Aeroporto Diagram

Name: new Aeroporto Diagram

OK Cancel

?

< Back Next >

F

Properties

No properties available

Aeroporto

The screenshot shows the Sirius Specification Editor interface. In the center, a 'Create Representation' dialog box is open, prompting the user to create a new 'Aeroporto Diagram'. The 'Name:' field is populated with 'new Aeroporto Diagram'. At the bottom of the dialog, there are 'OK' and 'Cancel' buttons. Below the dialog, a footer bar contains a question mark icon, navigation buttons ('< Back', '> Next'), and a search bar starting with 'F'. An orange arrow points from the bottom right towards the 'F' button. The background features the Sirius interface with the 'Model Explorer' and 'Outline' panes visible, displaying project structures like 'Aeroporto' and 'ligacao-entre-aeroportos.odesign'. The status bar at the bottom left shows the word 'Aeroporto'.

Model Explorer

type filter text

- Aeroporto
 - Project Dependencies
 - icons
 - ligacao-entre-aeroportos.odesign
- ligacao.aeroportodsl
 - World Map
 - representations.aird
- comprar
 - Project Dependencies
 - icons
 - comprar.c
 - comprar.odesign
 - representations.aird
- grupo.demo

Outline

Properties

Problems

Diagrama criado!

As informações dos elementos podem ser visualizadas e editadas na aba Propriedades

Aeroporto Salgado Filho

Main

Semantic

Rulers & Grid

Appearance

Properties

Nome: Salgado Filho

Pais: Brasil (radio button selected)

Argentina

Precisamos, agora, criar as relações dos objetos!

Default -> New Diagram Element -> Relation Based Edge

Model Explorer

type filter text

- Aeroporto
 - Project Dependencies
 - icons
 - ligacao-entre-aeroportos.odesign
- ligacao.aeroportodsl
 - World Map
 - representations.aird
- comprar
 - Project Dependencies
 - icons
 - comprar.c
 - comprar.odesign
 - representations.aird
- grupo.demo

Sirius Specification Editor

*ligacao-entre-aeroportos.odesign *new Aeroporto Diagram

Sirius Specification Editor

platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesign

Aeroporto Design

Aeroporto Diagram

Default

Aeroporto

Portao

ligacao_Aeroporto_Portao

file:/C/Users/Bruno/workspace/AeroportoDSL/model/aeroportoDSL.ecore

aeroportoDSL

Outline

platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesig

environment/viewpoint

file:/C/Users/Bruno/workspace/AeroportoDSL/model/aeroport

Edite as informações!



id: nome do elemento

SourceMapping: Qual Node a ligação começa?

TargetMapping: Qual Node a ligação termina?

Properties

Relation Based Edge

General

Path

Documentation

Behavior

Advanced

Id*: ligacao_Aeroporto_Portao

Label: ligacao_Aeroporto_Portao

Source Mapping*: Aeroporto

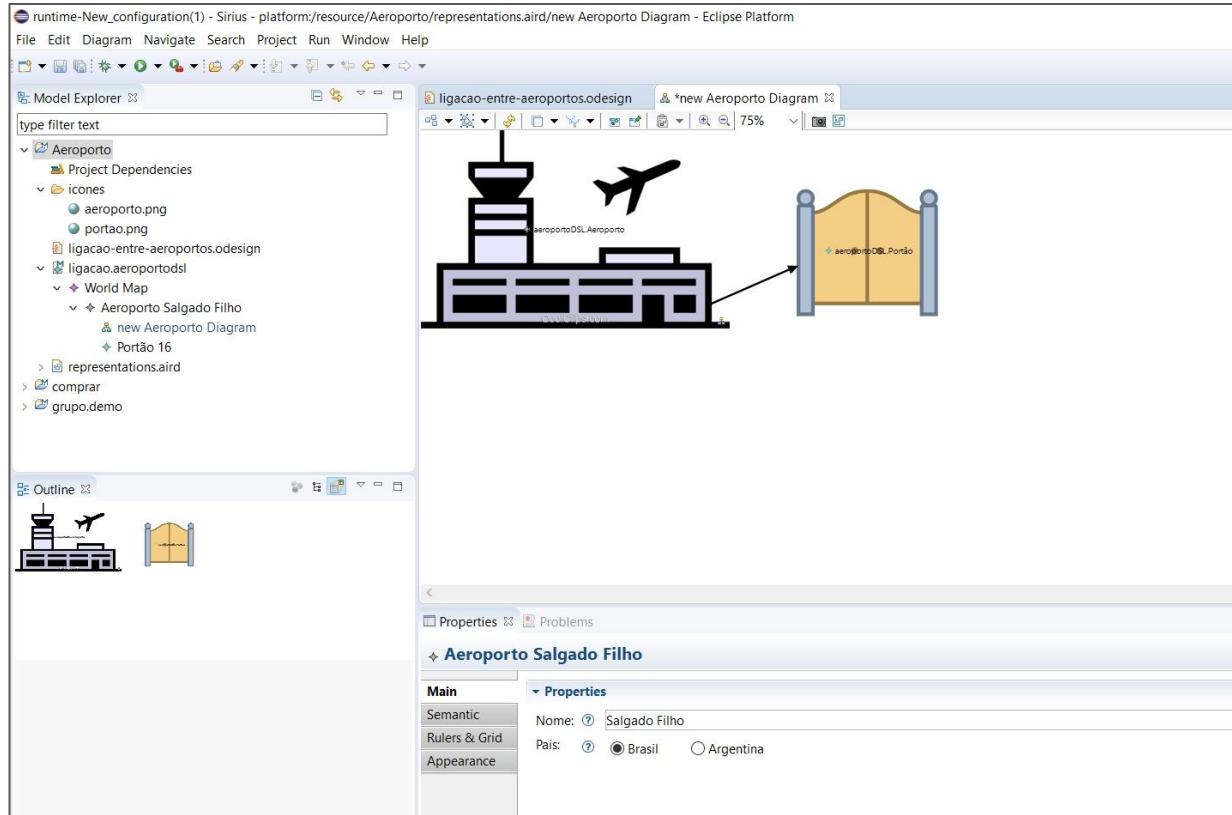
Target Mapping*: Portao

Target Finder Expression*:

CRIAR REPRESENTAÇÃO

Valide, salve e crie a representação novamente!

DIAGRAMA FINAL



CRIAÇÃO DA FERRAMENTA

Arquivos criados:

- Modelo EMF
- Diagrama que representa a DSL

Arquivo a ser criado:

- **Ferramenta que dê suporte a novos diagramas da DSL**

The screenshot shows the Sirius Platform interface for creating a new tool. A large orange arrow points from the left towards the context menu. The context menu is open over an object named 'Default' in the Sirius Specification Editor. The menu path is: **Default** > **New Tool**. The menu items include:

- New Diagram Element
- New Tool **Selected**
- New Customization
- New Import
- Undo Set Ctrl+Z
- Redo Ctrl+Y
- Cut
- Copy
- Paste
- Delete
- Validate
- Control...
- Run As
- Debug As
- Profile As
- Team
- Compare With
- Replace With
- Show EClass information
- Show References
- Load Resource...
- Refresh
- Show Properties View
- Hide Types
- Remove from Context Ctrl+Alt+Shift+Down

The 'Properties' view on the left shows the 'Default' object with tabs for General, Import, Documentation, and Advanced. The 'General' tab is selected. The 'Id*' field contains 'Default'. The status bar at the bottom indicates 'Selected Object: Default' and 'Saving Representations ...roject Aeroporto'.

Começo da criação da Ferramenta de Edição.

Default -> New Tool -> Section



Model Explorer

type filter text

- > icônes
- ligacao-entre-aeroportos.odesign
- ligacao.aeroportodsl
- ✓ ligacao.aeroportodsl
 - ❖ World Map
 - ❖ Aeroporto Salgado Filho
 - ❖ Portão 16
 - ❖ Aeroporto Ministro Pistarini
 - ❖ Portão 10

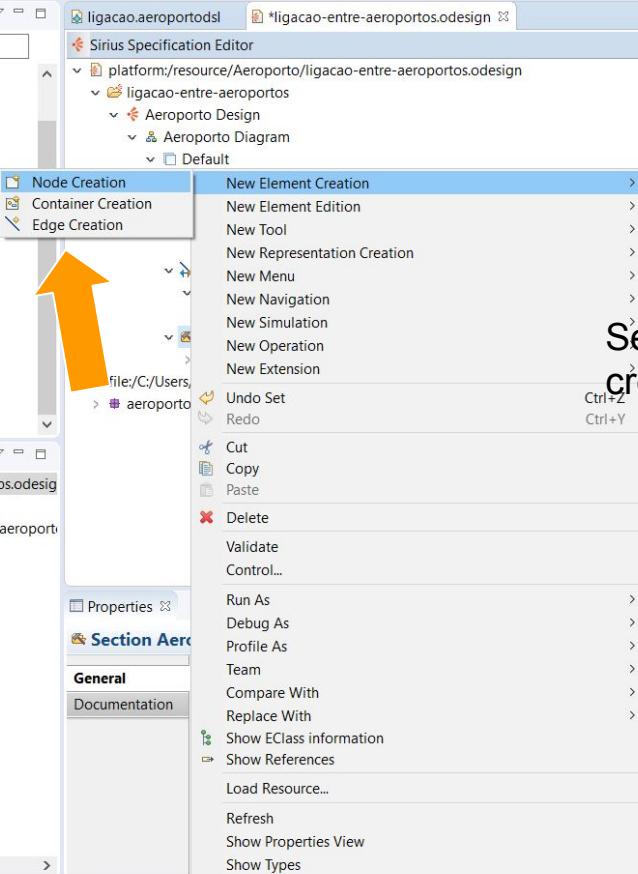
comprar

- Project Dependencies
- icons
- comprar.c
- comprar.odesign
- representations.aird

grup.demo

Outline

- > platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesig
- > environment:/viewpoint
- > file:/C/Users/Bruno/workspace/AeroportoDSL/model/aeroporto



Section -> New Element Creation -> Node creation

The screenshot shows the Sirius Specification Editor interface. The left pane displays the Model Explorer with various project files like 'ligacao.aeroportodsl', 'ligacao-entre-aeroportos.odesign', and 'comprar'. The center pane shows the Sirius Specification Editor with a tree view of the 'ligacao-entre-aeroportos.odesign' model, specifically focusing on the 'Aeroporto Design' section. A large orange arrow points downwards from the tree view towards the 'Properties' dialog at the bottom. The 'Properties' dialog is titled 'Node Creation Objeto-aero' and contains tabs for 'General', 'Documentation', and 'Advanced'. The 'General' tab shows fields for 'Id*' (set to 'Objeto-aero'), 'Label' (set to 'Objeto-aero'), and 'Node Mappings*' (set to 'Aeroporto'). The 'Advanced' tab is partially visible. The right side of the screen has a large text block with instructions.

Edite as informações.

Id: nome do elemento

Node Mapping: nome do Node do Diagrama que a ferramenta irá representar

Edite as informações

Id: nome do elemento

Node Mapping: nome do Node do Diagrama que a ferramenta irá representar

The screenshot shows the Eclipse Platform interface with the Sirius Specification Editor open. A large orange arrow points from the text "Begin -> New Operation -> Change Context" to the "Change Context" option in the context menu.

Sirius Specification Editor: The workspace shows a project named "ligacao-entre-aeroportos.odesign". Inside, there's a "Aeroporto Design" folder containing "Aeroporto Diagram", "Default", "Aeroporto", "Portao", and "ligacao_Aeroporto_Portao". The "ligacao_Aeroporto_Portao" folder contains "Edge Style solid" and "Center Label Style 8".

Context Menu: The "Change Context" option is highlighted in the context menu for the selected "Begin" object. Other options include Create Instance, Set, Unset, Move, Remove, Create View, Create Edge View, Delete View, Navigation, If, Switch, For, and External Java Action Call.

Properties View: Below the menu, it says "Properties are not available".

Status Bar: The status bar at the bottom left shows "Selected Object: Begin". At the bottom right, it says "Saving Representations ...roject Aeroporto".

Begin -> New Operation -> Change Context

The screenshot shows the Sirius Specification Editor interface. The top menu bar includes File, Edit, Navigate, Search, Project, Viewpoint Specification Editor, Run, Window, and Help. The title bar indicates the current project is "runtime-New_configuration(1) - Sirius - Aeroporto/ligacao-entre-aeroportos.odesign - Eclipse Platform". The left sidebar contains the Model Explorer and Outline views, showing various files and resources. The main workspace displays the Sirius Specification Editor with a tree view of the model structure. The tree shows nodes like "platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesign", "Aeroporto Design", "Aeroporto Diagram", "Default", "Aeroporto", "Portao", "ligacao_Aeroporto_Portao", "Edge Style solid", "Center Label Style 8", "Section Aero", "Node Creation Objeto-aero", "Node Creation Variable container", "Container View Variable containerView", "Begin", and "Change Context". Below the tree is a Properties view for the "Change Context" element, which has a "Browse Expression" field containing "[container/]". The status bar at the bottom shows "Selected Object: Change Context" and "Saving Representations ...roject Aeroporto".

Browse Expression: expressão que liga elementos

Segundo outros tutoriais, deve-se usar a expressão [container/] para permitir que a Sirius insira o elemento no Diagrama

Model Explorer

type filter text

- > icones
- ligacao-entre-aeroportos.odesign
- ligacao.aeroportodsl
- World Map
 - Aeroporto Salgado Filho
 - Portão 16
 - Aeroporto Ministro Pistarini
 - Portão 10
- representations.aird
- comprar
 - Project Dependencies
- icons
- comprar.c
- comprar.odesign
- representations.aird
- grupo.demo

Sirius Specification Editor

*ligacao-entre-aeroportos.odesign

Sirius Specification Editor

platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesign

ligacao-entre-aeroportos

Aeroporto Design

Aeroporto Diagram

Default

Aeroporto

- Workspace Image Aeroporto/icones/aeroporto.png

Portao

- Workspace Image Aeroporto/icones/portao.png

ligacao_Aeroporto_Portao

Edge Style solid

Center Label Style 8

Change Context

Create Instance

Set

Unset

Move

Remove

Create View

Create Edge View

Delete View

Navigation

If

Switch

For

External Java Action Call

Change Context

New Operation

New Extension

Undo New Create Instance Ctrl+Z

Redo

Cut

Copy

Paste

Delete

Validate

If

Control...

Run As

Debug As

Profile As

Team

Compare With

Replace With

Show EClass information

Show References

Load Resource...

Refresh

Show Properties View

Show Types

Remove from Context Ctrl+Alt+Shift+Down

Selected Object: Change Context

Agora devemos criar uma instância do Elemento

Section -> New Operation -> Create Instance



Model Explorer

type filter text

- > icones
- > ligacao-entre-aeroportos.odesign
- < ligacao.aeroportodsl
- < World Map
 - < Aeroporto Salgado Filho
 - Portão 16
 - < Aeroporto Ministro Pistarini
 - Portão 10
- > representations.aird
- < comprar
 - Project Dependencies
- > icons
- > comprar.c
- > comprar.odesign
- > representations.aird
- > grupo.demo

Outline

- > platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesig
- > environment/viewpoint
- > file:/C/Users/Bruno/workspace/AeroportoDSL/model/aeroporto

Sirius Specification Editor

*ligacao-entre-aeroportos.odesign

Sirius Specification Editor

platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesign

ligacao-entre-aeroportos

Aeroporto Design

Aeroporto Diagram

Default

Aeroporto

Workspace Image Aeroporto/icones/aeroporto.png

Portao

Workspace Image Aeroporto/icones/portao.png

ligacao_Aeroporto_Portao

Edge Style solid

Center Label Style 8

Section Aero

Node Creation Objeto-aero

Node Creation Variable container

Container View Variable containerView

Begin

Change Context

Create Instance aeroportoDSL.Aeroporto

file:/C/Users/Bruno/workspace/AeroportoDSL/model/aeroportoDSL.ecore

aeroportoDSL

Properties

Create Instance aeroportoDSL.Aeroporto

General

Reference Name*:

Type Name:

Variable Name:

Mude as informações

Reference Name: nome do Elemento
Type: Objeto diagramado



Selected Object: Create Instance aeroportoDSL.Aeroporto

: Saving Representations ...roject Aeroporto

Model Explorer

type filter text

- > icones
- ligacao-entre-aeroportos.odesign
- ligacao.aeroportodsl
- World Map
 - Aeroporto Salgado Filho
 - Portão 16
 - Aeroporto Ministro Pistarini
 - Portão 10
- representations.aird
- comprar
 - Project Dependencies
- icons
- comprar.c
- comprar.odesign
- representations.aird
- grupo.demo

Outline

- > platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesign
- > environment/viewpoint
- > file:/C/Users/Bruno/workspace/AeroportoDSL/model/aeroporto

Sirius Specification Editor

ligacao.aeroportodsl *ligacao-entre-aeroportos.odesign

Sirius Specification Editor

platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesign

ligacao-entre-aeroportos

- Aeroporto Design
 - Aeroporto Diagram
 - Default
 - Aeroporto
 - Workspace Image Aeroporto/icones/aeroporto.png
 - Portao
 - Workspace Image Aeroporto/icones/portao.png
 - ligacao_Aeroporto_Portao
 - Edge Style solid
 - Center Label Style 8

Create Instance

Set

New Operation

Unset

Move

Remove

Create View

Create Edge View

Delete View

Navigation

If

Switch

For

External Java Action Call

Create Instance aeroportoDSL

General Reference Name*: **Create Instance aeroportoDSL.Aeroporto**

Type Name:

Variable Name:

Remove from Context Ctrl+Alt+Shift+Down

Agora iremos criar as operações que podem ser feitas com aquele Elemento

Create Instance -> new Operation -> Set

Model Explorer

type filter text

- > Aeroporto
- > comprar
- > grupo.demo

Outline

- > platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesig
- > environment/viewpoint
- > file:/C/Users/Bruno/workspace/AeroportoDSL/model/aeroportoDSLecore

Sirius Specification Editor

ligacao-entre-aeroportos.odesign

- platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesign
- Aeroporto Design
- Aeroporto Diagram
 - Default
 - Aeroporto
 - Portão
 - ligacao_Aeroporto_Portao
 - Section tools2
 - Section Aeroporto
 - Node Creation novoAeroporto
 - Node Creation Variable container
 - Container View Variable containerView
 - Begin
 - Change Context [container/]
 - Create Instance aeroportoDSL.Aeroporto
 - Set novoNome
- aeroportoDSL
 - Aeroporto
 - nome : EString
 - país : TipoDePaís
 - portão : Portão

Properties

Set novoNome

General

Feature Name*: novoNome

Value Expression: ['Novo nome']

Mude as informações

Feature Name: nome que aparecerá no Diagrama



Selected Object: Set novoNome

Model Explorer

type filter text

- > Aeroporto
- > comprar
- > grupo.demo

Sirius Specification Editor

ligacao-entre-aeroportos.odesign

- platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesign
- ligacao-entre-aeroportos
 - Aeroporto Design
 - Aeroporto Diagram
 - Default
 - Aeroporto
 - Portão
 - ligacao_Aeroporto_Portao
 - Section tools?
 - Progress Information
- file:/C:/Users/E...
- aeroportoD
 - Aeroporto
 - nome : EString
 - país : TipoDePaís
 - portão : Portão
 - TipoDePaís

Outline

- > platform:/resource/Aeroporto/ligacao-entre-aeroportos.odesign
- > environment/viewpoint
- > file:/C:/Users/Bruno/workspace/AeroportoDSL/model/aeroport...

Properties

Set novoNome

General Feature Name*: novoNome

Value Expression: ['Novo nome']

Selected Object: Set novoNome

VALIDE!



VALIDAR E SALVAR!

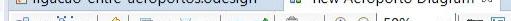
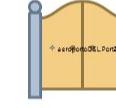
Não se esqueça de validar 3x e salvar o projeto!

Model Explorer

type filter text

- > Aeroporto
- > comprar
- > grupo.demo

Outline



50%



Agora, arrastando o elemento “novoAeroporto” para o Diagrama, uma nova representação do objeto Aeroporto deverá ser criada

◆ **Aeroporto Salgado Filho****Main**

Semantic

Rulers & Grid

Appearance

PropertiesNome: Salgado FilhoPaís: Brasil Argentina

CONCLUSÕES

Limitações:

- A Ferramenta Sirius possui muitas funcionalidades, porém não existem tutoriais que as abordem.
- A Ferramenta, algumas vezes, gera diagramas defeituosos (elementos somem, outros duplicam)
- Como ela depende do Modelo EMF, para acrescentar um novo atributo a um elemento da Sirius deve-se voltar ao Modelo EMF e editá-lo novamente e fazer a criação da Sirius de novo.

CONCLUSÕES

- Embora não exista uma grande quantidade de tutoriais, o Fórum da Sirius possui muitas dicas e respostas para diversos problemas.
- A Ferramenta é complicada de usar, mas é fácil de memorizar os passos.

REFERÊNCIA

Tutorial usado como Referência: [Tutorial Sirius 2 - Espanhol](#)

Dúvidas: [Fórum Sirius](#)