SOURCE

Tutorial

Meta Model Documentation

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Tutorial	Actifsource Tutorial – State Machine	
Required Time	15 Minutes	
Prerequisites	 Actifsource Tutorial – Installing Actifsource Actifsource Tutorial – Simple Service 	
Goal	 Learn how to document your own Meta Model Generating browsable HTML documentation 	
Topics covered	Meta Model Documentation Builtin model	
Notation	 To do Information Bold: Terms from actifsource or other technologies and tools <u>Bold underlined</u>: actifsource Resources <u>Underlined</u>: User Resources <u>UnderlinedItalics</u>: Resource Functions Monospaced: User input Italics: Important terms in current situation 	
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Overview

- Install Graphviz
- Create your meta model
- Prepare your project
- Create the documentation model

Part I: Install Graphviz



- ♦ Install the **graphviz** tool from <u>http://www.graphviz.org/</u>
- Make sure that **graphviz** is added to your system path
- ① The Actifsource meta model documentation generator is looking for the *graphviz executable* **dot.exe** in your system path.

Part II:

Create your meta model

- Create a simple meta model as shown in the Actifsource Tutorial Simple Service
- Make sure to use a Class Diagram for the meta model design

Create your meta model



- 🤄 Create a simple meta model as shown in the Actifsource Tutorial Simple Service
- 🗞 Use a Class Diagram named Design

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Create your meta model

typeOf	ch.actifsource.core.Class		
name	Service		
comment	The Service can be used via the Calls pro	vided.	
aspect[InitializationAspect]			
aspect[ResourceValidationAspect]			
aspect[NameAspect]			
extends	ch.actifsource.core.NamedResource		
modifier			
property	typeOf	OwnRelation	
	name	call	
	comment	Every Service consists of at least one Call.	
	subjectCardinality	Cardinality1_N	
	aspect[OwnRangeRestrictionAspect]		
	modifier		
	objectCardinality	Cardinality1_1	
	relationMode		
	style		
	defaultValue		
	range	com.actifsource.metamodeldocu.generic.Call	
definesAspect			
allowRoot			
classIcon			
lineColor			
fillColor			
shape			

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Part III:

Prepare your project

- Add a Builtin Dependency to DOCUMENTATION_METAMODEL
- Add a target folder to generate the documentation

Prepare your project

Properties for com.actifsource.	netamodeldocumentation	
type filter text	actifsource	
 Resource actifsource Builders Coverage FindBugs Java Build Path Java Code Style Java Compiler Java Editor Java Editor Project References Refactoring History Run/Debug Settings Task Repository 	Resource Paths Project Dependencies CORE DIAGRAM DOCUMENTATION_METAMODEL	Built-in Dependencies Add Builtin Edit Remove
		Арриу
(¥)		OK Cancel

✤ Open the properties of your project

♦ Add a Builtin Dependency to DOCUMENTATION_METAMODEL

Prepare your project

Properties for com.actifsource	metamodeldocumentation	
type filter text	actifsource	⇔ • ⇔ • •
 Resource Resource Builders Coverage FindBugs Java Build Path Java Code Style Java Compiler Java Editor Javadoc Location Project References Refactoring History Run/Debug Settings Task Repository 	Image: Resource Paths Image: Target Folders Image: Target Folders Image: Project Dependencies Image: Built-in Dependencies Image: Resource Paths Image: Target Folders Image: Target Folders Image: Project Dependencies Image: Built-in Dependencies Image: Resource Paths Image: Comparison of the second	ndencies Add Target Folder Add BuildConfig Add Package Add Resource Edit Edit Remove ignore whitespaces execute saveactions Annly
OK Cancel		

- ♥ Open the properties of your project
- ♦ Add a new Target Folder docu
- ♣ Add the Build Config Documentation_MetaModel_html to the Target Folder
- (i) Make sure you have added the **Builtin Dependency** to **DOCUMENTATION_METAMODEL** before

Part IV: Create the documentation model

- Instantiate a new resource of type **Documentation**
- Add chapters and sub chapters to your documentation

🖨 actifsource - Eclipse SDK			
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	LanguageSyntaxStyle - ch.actifsource.template.syntaxstyle.generic	sing template ch.actifsource.	
	StyledElement - ch.actifsource.template.syntaxstyle.generic	sing template <u>ch.actifsource</u> .	
	BuildConfig - ch.actifsource.generator	essed 0 files, wrote a total	
	Cardinality - ch.actifsource.core		
	Class - ch.actifsource.core		
1 items selected	Color - ch.actifsource.core	🛥 💆 🖄 🗞 🕎	

- Select a resource folder
- Create a new resource of type **Documentation** using the **new resource tool**

12

New Resource Wizard			
Actifsource Resource Creates a new actifsource resource of some type in the specified location.			
Resource Path:	/com.actifsource.metamodeldocumentation/asrc	Browse	
Namespace:	com.actifsource.metamodeldocu.docu	Browse	
OwnRelation:		Browse	
Туре:	ch. actif source. solution. documentation. metamodel. generic. Documentation	Browse	
Name:	Service Documentation		
Modifiers:	Abstract Final	_	
SuperClass;	ch.actifsource.core.NamedResource	Browse	
?	Finish	Cancel	

Create a new resource named Service Documentation of type Documentation

1	*Service Documen	ntation 🕱	- 8
	com.actifsource.m	netamodeldocu.docu.Service Documentation:Documentation	_
	typeOf	ch.actifsource.solution.documentation.metamodel.generic.Documentation	
	name	Service Documentation	
	description omitClass	This is the documentation of the Service Meta Model.	
8	chapter	typeOf ch.actifsource.solution.documentation.metamodel.generic.Chapter name Service Design description The Service consists of Service Calls which might have zero to many arguments. classDiagram Design subChapter	

- Open the resource <u>Service Documentation</u>
- $\$ Add some descriptions where needed
- ♦ Add a new <u>Chapter</u> named <u>Service Design</u>
- ↔ Make sure to refer to your **Class Diagram** named <u>Design</u>
- ♥ Save your resource



① Find the generated html documentation in the Target Folder docu

15



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