# MagicDraw CSV Import Plug-in Version 17.0.2 SP5 User Guide

No Magic, Inc. 2013

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# Introduction

CSV Import is a MagicDraw plug-in that will read values in a comma separated values file and create Model elements, diagrams and relationships from that data. The plug-in uses the CSVReader application to parse the CSV file. You may view the requirements for this application at <u>http://www.csvreader.com</u>.

### What is a Comma Separated Values File?

Imagine information laid out in the style of a spreadsheet. Each row contains information about a distinct type of thing; each column contains an attribute of that thing. For example:

First Name	Last Name	City	State	Date Of Birth
John	Wilson	Miami	FL	04-22-1968
Mary	Kelley	Newark	NJ	07-18-1977

As you can see, each row contains information about a specific person and each column contains discreet information *about* that person. A CSV file is a text file containing this information, but a comma separates each column. It might look like this:

John, Wilson, Miami, FL, 04-22-1968

Mary, Kelley, Newark, NJ, 07-18-1977

#### How Do I Get My Data into Comma Separated Values format?

This depends on where your information is to begin with. If it is in Microsoft Excel or some other spreadsheet program, there is usually a way to export or save the data as CSV. If it is in an SQL database, you may have to write a query or use a data access tool to get the data into the proper format.

# Before You Begin

You should be familiar with the MagicDraw program and how the various diagrams, model elements, and relationships hang together. This plug-in assumes you are and will not validate the things you are trying to do before attempting to do them. It is therefore your responsibility to import clean data in the appropriate order. In general, you import diagrams first, then model elements, then relationships.

- The plug-in will not allow you to create a root package within MagicDraw. Therefore, you must manually create any root packages in which you want to create elements, diagrams, and relationships. You may use the plug-in to create sub packages.
- The plug-in avoids duplication by allowing you to choose the Key property. Therefore, on every import, the plug-in can update that element if it already exists in your model and create it if it does not. The key property identify the uniqueness of elements, so you can now have a class named Class1 with a Property element named XYZ and another class named Class2 with a Property element named XYZ. Any elements that you wish the importer to place on a diagram should have unique names at the package level since there is not a way to establish the ownership of an element and the diagram on which to place it at the same time.
- Before using this plug-in to create elements, you should create them by hand in a test model to ensure that you know if any other prior elements are required by the model. You can get more on this in the Examples section under Prototyping Element in a Test Model Before You Begin. To be on the safe side, always make a backup of your model before running this plugin.



Figure 1 - The basic process for using this plug-in

Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
Target Package	Target Element Type	Target Stereotype	Target Diagram Type
CSV Import	Abstraction	assembly	Class Diagram
My Test Package	AcceptCallAction	autoGeneratedName	Interaction Diagram
	AcceptEventAction	delegate	Communication Diagram
	ActionExecutionSpecification	derive	Sequence Diagram
	ActionInputPin	HyperlinkOwner	Use Case Diagram
	Activity	InvisibleStereotype	State Machine Diagram
	ActivityFinalNode	refine	Protocol State Machine Diagram
	ActivityParameterNode	TODO Owner	Activity Diagram
	ActivityPartition	trace	Implementation Diagram
	Actor	typeModifier	Composite Structure Diagram
	AddStructuralFeatureValueAct	virtual	Behavior Diagram
	AddVariableValueAction		Any Diagram
	AnvReceiveEvent		Static Diagram

The first screen is known as the Setup screen. Here, you select the CSV file you wish to import and select which package you are importing into, the model Element Types and Stereotypes you are importing. If you use other character to split each column other than "," (comma), you can specify in the Field Separator. When you are done, press next to move to the following screen. If you select the Diagram element type, the diagram type list will be enabled and you can select the type of diagram you wish to create.

Note: While you can use the same file to import multiple types of model elements, the plug-in will only allow one type to be imported at a time. The same rule applies to diagram types.

						🗹 Use First Row as Header
Properties	21.01.5	and a P	CSV Data	1.110		P
lame	Туре	Owner	0	1	2	
timeOhservationOfF	TimeObservation	Class	Name	Double	Boolean	
unedElementOfType	TypedElement	Class	ClassA	1.1	TRUE	
inmarshallActionOf	UnmarshallAction	Class	ClassB	1.2	FALSE	
anliedStereotypeIns	InstanceSpecification	Class	ClassC	1.3	TRUE	
tribute	Property	Class	ClassD	1.4	FALSE	
assifierRehavior	Rehavior	Class				
ientDependency	Dependency	Class	1.5			
laborationlise	CollaborationLise	Class	- Property M	lan		
iagram	Diagram	Class	Property Na	me	Owner	Column Index
ementimnort	Elementimnort	Class	name	inc	Class	0
atura	Feature	Class	isActivo		Class	2
aneralization	Ceneralization	Class	isheave		Class	2
terfaceRealization	InterfaceRealization	Class				
Abstract	Roolean	Class				
Active	Boolean	Class				
FinalSpecialization	Boolean	Class				
leaf	Boolean	Class				
ember	NamedElement	Class				
me	String	Class	Varianant			•
ameExpression	StringExpression	Class	key propert	y name		•
mesnace	Namesnace	Class		-		
	Cl:6	cl	Add	Remo	ve	Save Import Map

The second screen is known as the mappings screen. This screen is where you will tell the plug-in whether or not to use the first row of your file as headers, and what column of data maps to which attribute. To map an attribute, select the column from your CSV data and a row from the properties table, and then press the Add button. The association between the attribute and the column in the CSV file will be represented in the Property Maps table. If you want to remove one of these associations, select its row in the Property Maps table and press the Remove button. Once the mapping is done, you can choose the Key property to identify the uniqueness of importing data. So, the plug-in can update that element if it already exists in your model and create it if it does not.

Press Finish on this screen to start the import. The MagicDraw log area will contain messages concerning the data being imported.

# Mapping Attributes

### **Data Conversions**

The plug-in is designed to convert textual data into model elements and attributes. You may be familiar with names like Integer or Decimal and know that those are numbers. Boolean is a True/False attribute, and String is textual data. You will also see a lot of internal MagicDraw data types like Element or Component. In those cases, the plug-in will assume that what you have

specified is the item's name. It will then go looking for an element with that name. Be sure you know what you're doing. If you attempt to assign an element of one type to another type, errors will occur. The importer will display all attributes, whether it knows how to convert them or not. It is up to you to provide a value that the importer can understand. Mostly, you will simply need to provide the element's name. Moreover you can set the Type of a property. Just specify the name of the type as you see it in the Type drop down list in an element's specification. The spelling is case sensitive.

## The Owner Attribute

The Owner attribute can be mapped like any other attribute. If you do not map it, then the package you have selected becomes the owner of the element you are creating. Since the package is usually the owner of all the elements, you should not need to map this very often. There are a couple of exceptions to this rule:

• If you map the name of a diagram to the owner attribute, the plug-in will assume that you want to place that element on the diagram. If the element is new, it will be given the package as its owner and placed on the diagram.

## Key property

The importer provides you a flexible way to identify the uniqueness of elements. You can either choose Name or other attribute. Thus, instead of creating the duplicate elements, the existing element will get updated when you import data.

## Adding Importing Elements to Diagrams

To show the elements you are importing on a diagram, map the Diagram property with the column that represents the diagram.

## **Creating Relationships**

When creating Relationships, the plug-in will ask you to provide the source and target. Map these to the names of the existing model elements you want to connect. These elements should be on the same diagram. If they are not, the plug-in will not report an error. However, when you go back and look at your diagram, you will see a line drawn to nowhere. If you have a model element that appears on multiple diagrams, you will need to map the diagram name to the Owner attribute of the Relationship to ensure the relationship is drawn on the correct diagram. Make this mapping **after the name and before the source and target** mappings in the Property Maps Table. This is the only instance where the order of the mappings is significant.

# Saving Your Choices

Once you have the setup and mappings that you want, you may wish to perform this import multiple times or share it with other users. You may also wish to create groups of imports that will be done in sequence. The plug-in offers you to save this information in the MagicDraw model.

The first time you save something to the model, the plug-in will create a package in the model called "CSV Imports". This package is open to you and can be edited at will. The only circumstance under which you should edit anything in this package is to delete items you no longer want.



Import maps are stored as Instances of the ImportDescriptor class along with a set of instances of the PropertyMap class. If you want to delete a map from your model, delete all the instances. **Do not delete the ImportDescriptor or PropertyMap classes themselves.** Map groups are stored as class diagrams. To delete a map group, open the diagram and manually delete all the Dependencies between the instances on the diagram. Then, close the diagram and delete it from the containment area. Then delete any maps that you no longer want.

If you accidentally delete the ImportDescriptor or PropertyMap classes, they will be recreated the next time you save something to the Model.

# Saving Maps

If you press the Save Map button, a window will pop up asking you for the name you want to save the map under.

Maps ClassMap Diagram UseCase	Map Groups Group1 Group2
Name	Save Import Cancel

The list on the left shows the names of the maps already in your model. If you select one of these names, it will be copied to the Name field. If you do not change it there, it will be overwritten. You will also see this screen when you are loading maps from your model.

# Saving Map Groups

When you choose to create a map group, a window will pop up asking you which model maps you want to add to the group.

- Maps in Mode ClassMap Diagram UseCase	I	>	Selections	
Group Name				Save Cancel

The list on the left shows the maps already created in the model. You may select them individually or in groups to move to the list on the right with the > button. These maps will be imported in the sequence you specify. If you make a mistake, you can use the < button to remove a selection.

Press the Execute group to run these map groups as a batch of maps. In File mode, you'll be asked for the file. In Model mode, you'll be shown the same screen as seen in "Saving Maps."

You may also use the Model and File modes interchangeably once during a session. So, you could use File mode to develop your map and then switch to Model mode to store it for others to use.

# Creating DoDAF And Other Custom Model Elements

Creating custom model element such as DoDAF diagrams and elements is not that much different than creating normal UML items and mostly entails simply applying stereotypes to the elements you're creating. Make sure you have loaded the custom profile into your model, and proceed from there.

**Diagrams**: If you want to create an OV-2 diagram for example, use the instructions from the section "Creating and Populating Class Diagrams" to import a Class Diagram, but be sure to select the OV-2 Diagram Type.

**Operational Nodes**: If you import elements of type Class and apply the Operational Node stereotype, those will be created in your model and placed on your diagrams if you so choose.

**Needlines**: A Needline is just a Relationship element with the Needline stereotype applied. You may create them the same way you create Relationships.

# **Examples**

## **Creating and Populating Class Diagrams**

Start with an Excel spreadsheet:

9	🔯 🗄	1	li li	<b></b>
Nev	v Open Save	Print Import	Copy Paste	Format
$\diamond$	A	B	C	D
1	Diag1	This is Diag 1		
2	Diag2	This is Diag 2		
3	Diag3	This is Diag 3		
4	Diag4	This is Diag 4		]
5				
6				
7				
8				
-	1			

Export this to CSV Format.

#### Now, bring up the CSV Import Plug-in.

Load Import Map	Create Map Group	Execute Map Gr	roup Set Delimiter
Farget Package:	Target Element Type:	Target Stereoty	ype: Target Diagram Type:
My Test Package	DecisionNode Dependency Deployment DeploymentSpecification DestroyLinkAction DestroyObjectAction DestructionEvent Device Diagram Duration Duration DurationConstraint DurationObservation ElementValue	<ul> <li>actorDiagram autoGeneratedN conceptualView deploymentView designModel DiagramInfo HyperlinkOwner implementationI InvisibleStereoty processView TODO_Owner typeModifier useCaseModelD useCaseView</li> </ul>	Class DiagramNameInteraction DiagramvCommunication DiagramwSequence DiagramUse Case Diagramstate Machine DiagramrProtocol State Machine DiagramiModelActivity DiagramypeImplementation DiagramComposite Structure DiagramBehavior DiagramDiagramStatic Diagram

#### Press Next to move to the next screen.

Properties:			CSV Data:		Use First Row as Header
Name	Туре	Owner	A	В	
ownedComment	String	Element	Diag1	This	s is Diag 1
context	Element	Diagram	Diag2	This	s is Diag 2
name	String	Diagram	Diag3	This	s is Diag 3
owner	Element	Diagram	Diag4	This	s is Diag 4
			Property Maps:		
			Property Name	Owner	Column Index
			name	Diagram	0
			ownedComment	Element	1
			Key property nam	ne nove	\$ Save Import Map

Press Finish and look at your MagicDraw containment window.

000	Containment ×
B 🐡 🦸	<b>□</b> . <b>□</b>
	a My Test Package 點 Diag1 點 Diag2 點 Diag3 點 Diag4 JML Standard Profile [UML_Standard_Profile.xn JseCase Description Profile [UseCase_Profile.x

#### **Creating Classes into Diagram**

Now, let's add some elements to these diagrams. Again, we'll start out with spreadsheet data:

-									S	heets (	harts	Sma
$\diamond$	A	В	C	D	E	F	G	Н	i i	J	K	
1	Owner	Name	Class	PreCond	PostCond	OutStanding	Notes	Assumption	Author	Date	ToDo	
2	Diag1	UseCase1		Failing	Working	Zippo	Got a light?	Smoker	Dickens	12/7/41	Starbuck	
3	Diag2	UseCase2		None	Exited	Leaving	C-YA	Left	Tolstoy	9/11/01	Apollo	
4	Diag3	UseCase3		Idea	Viable	Implementatio	Dude	Ya-Ya	Marx	12/25/08	8 Helo	
5	Diag4	UseCase4		Working	Powered Dowr	Cooling Off	Don't Touch	Told You!	Twain	3/16/08	Athena	
6	Diag1	UseCase1A		Light	Dark	None		Blink	Longfellow	10/31/0	Boomer	
7	Diag2	UseCase2A		Open	Convinced	Moved	Reformed	Intelligent	Thoreau	8/22/92	Cali	
8	Diag3	UseCase3A		Eggs	Beaten	Scrambled	With Tabasco	Like it hot	Kinsey	6/6/6	6 Adama	
9	Diag4	UseCase4A		Shaken	Stirred	Martini	Bond - James	Getting' Lucky	Fleming	4/1/5	7 Tigh	
10												
11												
12												

Then, we run the import plug-in.

UseCase2.csv		(Ch	oose File ) Field Separator: ,
Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
Target Package CSV Import My Test Package	Target Element Type TimeConstraint TimeEvent TimeExpression TimeInterval TimeObservation Transition Trigger UnmarshallAction Usage UseCase ValuePin ValueSpecificationAction	Target Stereotype autoGeneratedName HyperlinkOwner InvisibleStereotype realization requirementUseCase specification TODO_Owner typeModifier useCaseOwner	Target Diagram TypeClass DiagramInteraction DiagramCommunication DiagramSequence DiagramUse Case DiagramState Machine DiagramProtocol State Machine DiagramActivity DiagramImplementation DiagramComposite Structure DiagramBehavior DiagramAny DiagramStatic DiagramStatic Diagram

Press Next to move to the next screen.

Name	Type	Owner	Owner	Name	Class	PreCond	PostCond	OutStandi
ownedComment	String	Element 🔺	Diag1	UseCase1		Failing	Working	Zippo
mponentOfPac	Component	UseCase 🕥	Diag2	UseCase2		None	Exited	Leaving
	boolean	UseCase	Diag3	UseCase3		Idea	Viable	Implemen
	boolean	UseCase	Diag4	UseCase4		Working	Powered	Cooling O
	String	UseCase	Diag1	UseCase1A		Light	Dark	None
	Element	UseCase	4		****	•		) Þ
cage	Package	UseCase	1					
	Package	UseCase						
tion	String	requirementUseC	Bronorty	lanc				
	String	requirementUseC	Property	waps	10		().	
Issue	String	requirementUseC	Property Na	ame	Owner		Column Index	
	String	requirementUseC	Diagram				0	
ł	String	requirementUseC	name		UseCase		1	
1 ls	String	requirementUseC	PreConditio	on	requiremen	tUseCase	3	
o	String	requirementUseC	PostConditi	ion	requiremen	tUseCase	4	
on	String	requirementUseC	Out-standi	ing Issue	requiremen	tUseCase	5	
e Flow o	Diagram	requirementUseC	Notes		requiremen	tUseCase	6	
	String	requirementUseC 🖳	Assumption	n	requiremen	tUseCase	7	
Events	String	requirementUseC						
	String	requirementUseC	Key proper	ty name			÷.]	
	String	requirementUseC 🧶						
	Diagram	requirementUseC 💌	Add	Remov	e		Save Imp	ort Map

After you press Finish, your Containment area should look like this:





If you open up Diag1, you should see something similar to this:

#### **Creating Associations into Diagram**

Now, we will add associations between these elements. Start out with spreadsheet data:

2	🕅 🕅	🚍 🖨	li 💼	1	5.	<b>N</b> •	Z
Nev	v Open Save	Print Import	Copy Paste	Format	Undo	Redo	Aut
~	٨	R	6	D		F	_
ĭ	UseCase2A	UseCase2	Assoc1	Diag2			_
2	UseCase1A	UseCase1	Assoc2	Diag1			
3	UseCase3A	UseCase3	Assoc3	Diag3			
4	UseCase4A	UseCase4	Assoc4	Diag4			
5							
6							
7							
8							

#### Then, bring up the import plug-in

JCASSOC.CSV		Ch	oose File Field Separator: ,
Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
Farget Package ISV Import Ay Test Package	Target Element Type ActivityParameterNode ActivityParameterNode ActivityPartition Actor AddStructuralFeatureValueAct AddVariableValueAction AnyReceiveEvent Artifact AssociationClass BehaviorExecutionSpecification BroadcastSignalAction CallBehaviorAction	Target Stereotype autoGeneratedName HyperlinkOwner InvisibleStereotype realization specification TODO_Owner typeModifier useCaseOwner	Target Diagram Type Class Diagram Interaction Diagram Communication Diagram Sequence Diagram Use Case Diagram State Machine Diagram Protocol State Machine Diagram Activity Diagram Implementation Diagram Composite Structure Diagram Behavior Diagram Any Diagram Static Diagram

Press Next to move to the next screen.

Properties			CSV Data			
Name	Туре	Owner	A B	С	D	
ownedComment	String	Element	UseCase2A UseCase	2 Assoc1	Diag2	
Client	Element	Association	UseCase1A UseCase	el Assoc2	Diag1	
Supplier	Element	Association	UseCase3A UseCase	e3 Assoc3	Diag3	
componentOfPack	Component	Association	UseCase4A UseCase	4 Assoc4	Diag4	
abstract	boolean	Association				
derived	boolean	Association				
name	String	Association				
owner	Flement	Association				
owningPackage	Package	Association	Property Maps			
package	Package	Association	Property Name	Owner		Column Index
	, and the second s		name	Association		2
			owner	Association		3
			target	Association		1
			source	Association		0
			Key property nam	ie	÷	)
			Add Ren	nove		Save Import Map

Again, your containment area reflects the new additions to your model:



Now, see how your diagram has changed:



## **Creating and Populating State Diagrams**

State diagrams are unusual in that they are not owned by the package. Therefore, there are some extra steps you need to perform to import these diagrams. This is also the case with Activity and Sequence diagrams.

Step 1: Create State Machine Elements

e					Ē	Ê	1	5
Nev	v Open	Save	Print	Import	Copy	Paste	Format	Undo
					She	ets	Cha	arts
0	A	1		В		С		D
1	SMach1	L	Keyv	vord1	State	Machin	e 1	
2	SMach2	2	Keyw	vord2	State	Machin	e 2	
3								
4								
5								

# Bring up the plug-in.

SMach.csv		Ch	oose File ) Field Separator: ,
Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
Target Package TSV Import My Test Package	Target Element Type Send OperationEvent Send SignalAction Send SignalEvent SequenceNode Signal SignalEvent StartClassifierBehaviorAction State StateInvariant StateMachine Stereotype StringExpression	Target Stereotype autoGeneratedName auxiliary boundary control <u>Customization</u> entity focus HyperlinkOwner implementationClass InvisibleStereotype realization specification TODO_Owner	Target Diagram TypeClass DiagramInteraction DiagramCommunication DiagramSequence DiagramUse Case DiagramState Machine DiagramProtocol State Machine DiagramActivity DiagramImplementation DiagramComposite Structure DiagramBehavior DiagramAny DiagramStatic Diagram

Press Next to move to the next screen.

Name	Type	Owner	A	В	C	
ownedComment	String	Element	SMach1	Keyword 1	State Machine 1	(
componentOfPac	Component	StateMachine	SMach2	Keyword2	State Machine 2	
abstract	boolean	StateMachine				
active	boolean	StateMachine				
leaf	boolean	StateMachine				
name	String	StateMachine				
owner	Element	StateMachine				
owningPackage	Package	StateMachine				
package	Package	StateMachine	-Property I	lanc		
reentrant	boolean	StateMachine	Property i	naps		
typesForTarget	Class	Customization	Property Na	me	Owner	Column Index
typesForSource	Class	Customization	name		StateMachine	0
representationText	String	Customization	keyword		Customization	1
keyword	String	Customization	ownedCorr	ment	Element	2
allowedRelations	Class	Customization				
disallowedRelatio	Class	Customization				
hideMetatype	boolean	Customization				
superTypes	Element	Customization				
base_Class	Class	Customization				
standardExpertC	String	Customization	Key proper	ty name		÷
hiddenOwnedTyp	Class	Customization				
suggestedOwned	String	Customization	Add	Remov	/e	Save Import Ma

Press Finish and your containment area should look like this:



Step 2: Create State Machine Diagrams

2		日			Ē.	Ê	1	5	<u>ଲ</u> -
New	v Open	Save	Print	Import	Сору	Paste	Format	t Undo	Redo
								Shee	ts
0	A			В		С		D	E
1	StateDi	ag1	Gera	ld		3/14/07	7 SMach	11	
2	StateDi	ag2	Mark	(	1	2/24/08	3 SMach	12	
3							1		
4									
5									

#### Step 3: Bring up the plug-in

tateDiag.csv		Cho	ose File ) Field Separator: ,
Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
Target Package ISV Import My Test Package	Target Element Type Dependency Deployment DeploymentSpecification DestroyLinkAction DestroyObjectAction DestructionEvent Device Diagram Duration Duration DurationConstraint DurationInterval DurationObservation ElementValue	Target Stereotype actorDiagram autoGeneratedName conceptualView deploymentView designModel DiagramInfo HyperlinkOwner implementationModel InvisibleStereotype processView TODO_Owner typeModifier useCaseView	Target Diagram Type Class Diagram Interaction Diagram Communication Diagram Sequence Diagram Use Case Diagram State Machine Diagram Protocol State Machine Diagram Activity Diagram Implementation Diagram Composite Structure Diagram Behavior Diagram Any Diagram Static Diagram

Step 4: Press Next to move to the next screen.

					8	Use First Row as Heade
Properties			CSV Data			
Name	Type	Owner	A B	C	D	
ownedComment	String	Element	StateDiag1 Gera	d 3/14/07	SMach1	
context	Element	Diagram	StateDiag2 Mark	2/24/08	SMach2	
name	String	Diagram				
owner	Element	Diagram				
Creation date	date	DiagramInfo				
Author	String	DiagramInfo				
Modification date	date	DiagramInfo				
base_Diagram	Diagram	DiagramInfo				
			Property Maps			
			Property Name	Owner		Column Index
			name	Diagram		0
			Author	DiagramInfo	)	1
			Modification date	DiagramInfo	)	2
			owner	Diagram		3
			Key property	ame	Å	]
			Add	lemove		Save Import Map
< Back Nex	t > Finish	Cancel				

Step 5: Press Finish and your containment area should look like this:



Step 6: Manually delete any superfluous State Diagrams. MagicDraw may, at this point, rename your state machine elements to match the diagram name.

Step 7: Create state elements.

2		H			Ŀ	Ê
Nev	v Open	Save	Print	Import	Copy	Paste F
					Sheets	
0	A			В		C
1	State1		State	eDiag1		
2	State2		State	eDiag1		
3	State3		State	eDiag2		
4	State4		State	eDiag2		
5						

## Step 8. Import them

prace.esv		Cho	ose File Field Separator: ,
Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
Target Package CSV Import My Test Package	Target Element Type SendObjectAction SendOperationEvent SendSignalAction SendSignalEvent SequenceNode Signal SignalEvent StartClassifierBehaviorAction State StateInvariant StateMachine Stereotype StringExpression	Target Stereotype autoGeneratedName HyperlinkOwner InvisibleStereotype TODO_Owner typeModifier	Target Diagram TypeClass DiagramInteraction DiagramCommunication DiagramSequence DiagramUse Case DiagramState Machine DiagramProtocol State Machine DiagramActivity DiagramImplementation DiagramComposite Structure DiagramBehavior DiagramAny DiagramStatic DiagramStatic Diagram

Step 9. Press Next to move to the next screen.

Properties			CSV Data		Use First Row as Hea
Name ownedComment leaf name owner	Type String boolean String Element	Owner Element State State State	A B State1 StateD State2 StateD State3 StateD State4 StateD	iag1 iag1 iag2 iag2	
			Property Maps Property Name name Diagram	Owner State	Column Index 0 1
			Key property na	me	÷ Save Import Map

Step 10. Press Finish and review your containment area.



See them populated on the State Diagrams.

StateDiag1 ×		
Re	▲ • = = = = = = / /	r
🛅 Common	(atata maakina CMaak II 📾 Stati Dirat i	_
🗈 Note 🔹	state machine Smach I a StateDlag I j	
abo Text Box		
🔎 Anchor 🔹		
Dependency	State1 State2	
🔛 Image Shape		
Separator		
磨 State Machine		• •
🔵 State		
🖻 Composite		
Initial		
Final State		
$\times$ Terminate		• •
O Entry Point		
⊗ Exit Point		•

Now, we will import transitions. First, let's create the data:

2		昷	=		Ē	Ê	1
New	/ Open	Save	Print	Import	Сору	Paste	Format
							_
$\diamond$	A			B		С	
1	State1		State	2	Transl	2	
2	State3		State	24	Trans3	34	
3					1		
4							
5							
6							
7							

Now, we'll import it. Bring up the plug-in.

			Field Separator:
Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
Target Package My Test Package	Target Element Type Abstraction AcceptCallAction AcceptEventAction ActionExecutionSpecification ActionInputPin Activity ActivityFinalNode ActivityParameterNode ActivityPartition Actor AddStructuralFeatureValueAct AddVariableValueAction	Target Stereotype autoGeneratedName auxiliary boundary control Customization entity focus HyperlinkOwner implementationClass InvisibleStereotype realization specification TOPO Owner	Target Diagram Type         Class Diagram         Interaction Diagram         Communication Diagram         Sequence Diagram         Use Case Diagram         State Machine Diagram         Protocol State Machine Diagram         Activity Diagram         Implementation Diagram         Composite Structure Diagram         Any Diagram         State Diagram

Press Next to move to the next screen.

Properties			CSV Dat	a			
Name	Type	Owner	0	1	2	3	
ownedComment	String	Element	State 1	State2	Trans12	StateDiag1	
Client	Element	Transition	State 3	State4	Trans34	StateDiag2	
Supplier	Element	Transition					
leaf	boolean	Transition					
name	String	Transition					
owner	Element	Transition					
			source		Transition		5 0 1
			target		Iransition		1
			Key prop	erty name	2	Å T	)
			Add	Rem	ove		Save Import Ma

30

Press Finish and the containment area will look like this:



A Quick look at StateDiag1 reveals this:



# **Creating and populating Activity Diagrams**

First, we'll start with a clean containment area:



Now, we'll import some activities, since activity diagrams are owned by activity elements:

2	🔊 🗄	<b>a</b>
New	Open Save	Print Import
$\diamond$	A	В
1	Activity1	
2	Activity2	
3		
4		
5		

## Bring up the plug-in:

Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
arget Package y Test Package	Target Element Type Abstraction AcceptCallAction AcceptEventAction ActionExecutionSpecification ActionInputPin ActivityPinalNode ActivityParameterNode ActivityPartition Actor AddStructuralFeatureValueAct AddVariableValueAction AnvReceiveEvent	Target Stereotype autoGeneratedName auxiliary boundary control Customization entity focus HyperlinkOwner implementationClass InvisibleStereotype realization specification TODO_Owner type	Target Diagram TypeClass DiagramInteraction DiagramCommunication DiagramSequence DiagramUse Case DiagramState Machine DiagramProtocol State Machine DiagramActivity DiagramImplementation DiagramComposite Structure DiagramBehavior DiagramAny DiagramStatic Diagram

## Press Next to go the next screen.

					Use First Row as Heade
Properties			CSV Data		
Name	Туре	Owner	0		
ownedComment componentOfPack abstract active leaf name owner owningPackage package	String Component boolean boolean String Element Package	Element Activity Activity Activity Activity Activity Activity Activity	Activity1 Activity2		
package readOnly	Package	Activity	Property Maps		
reentrant	boolean	Activity	Property Name	Owner	Column Index
singleExecution	boolean	Activity	name	Activity	0
			Key property nar	ne	\$
			Add Rei	move	Save Import Map
< Back Next	> Finish	Cancel			

Press Finish and your containment area should look like this:



Now, we'll create a couple of Activity Diagrams. As always, we start with CSV data:

2					D	Ê	<b>Š</b>
New	/ Open	Save	Print	Import	Copy	Paste	Format
							-
0	A			В		C	
1	ActDiag	1	Gera	ld	Activi	ty1	
2	ActDiag	2	Mark	C	Activi	ty2	
3							
4							
5							
6							

Now, we'll bring up the plug-in and import the data:

ctDiag.csv		Cho	ose File Field Separator: ,
Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
Farget Package Iy Test Package	Target Element Type DestructionEvent	Target Stereotype	Target Diagram Type Class Diagram
	Device Diagram	autoGeneratedName conceptualView	Interaction Diagram Communication Diagram
	Duration DurationConstraint	deploymentView designModel DiagramInfo	Use Case Diagram State Machine Diagram
	DurationObservation ElementValue	HyperlinkOwner	Protocol State Machine Diagram Activity Diagram
	Enumeration EnumerationLiteral	InvisibleStereotype processView	Implementation Diagram Composite Structure Diagram
	ExecutionEnvironment ExecutionEvent	TODO_Owner typeModifier	Behavior Diagram Any Diagram
	ExecutionOccurrenceSpecifica V	useCaseModelDiagram	Static Diagram

Press Next to go to the next screen.

Properties	2017	a fina ba t	CSV Data		
Name         Type           ownedComment         String           context         Element           name         String           owner         Element           Creation date         date           Author         String           Modification date         date	Owner Element Diagram Diagram Diagram DiagramInfo DiagramInfo DiagramInfo	0 1 ActDiag1 Geralc ActDiag2 Mark	2 Activity1 Activity2		
vase_viagram	Diagram	Diagraminio	Property Maps Property Name name owner Author	Owner Diagram Diagram DiagramInfo	Column Index 0 2 1
			Key property na	me	\$ Save Import Map
Press Finish.

MagicDraw will most likely rename your activities to match the diagram name, so your containment area will look like this:



#### **Creating Classes into Diagram**

Now, let's create some classes to place on these diagrams:

2				Ē	Ê	<b>Š</b>
Nev	v Open Sav	ve Print	Import	Сору	Paste	Format
						_
0	A		B		С	D
1	ActDiag1	Class	sA			
2	ActDiag2	Class	sB			
3	ActDiag1	Class	sA1			
4	ActDiag2	Class	sB1			
5						
6				1		
7						

## Start the plug-in

Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
rrget Package	Target Element Type CallEvent CallOperationAction CentralBufferNode ChangeEvent ClearAssociationAction ClearStructuralFeatureAction ClearVariableAction Collaboration CollaborationUse CombinedFragment	Target Stereotype autoGeneratedName auxiliary boundary control Customization entity focus HyperlinkOwner implementationClass InvisibleStereotype realization	Target Diagram Type Class Diagram Interaction Diagram Communication Diagram Sequence Diagram Use Case Diagram State Machine Diagram Protocol State Machine Diagram Activity Diagram Implementation Diagram Composite Structure Diagram Behavior Diagram
	CommunicationPath Component	specification TODO_Owner	Any Diagram Static Diagram

#### Press Next to go the next screen.

Properties			CSV Data		
Name ownedComment componentOfPack abstract active leaf name	Type String Component boolean boolean String	Owner Element Class Class Class Class Class Class	0 1 ActDiag1 ClassA ActDiag2 ClassB ActDiag1 ClassA ActDiag2 ClassB	1	
owner owningPackage package	Package Package	Class Class	Property Maps Property Name name Diagram	Owner Class	Column Index 1 0
			Key property nan	ne	÷ Save Import Map

After pressing Finish, your containment area reflects the changes:

000	Containment	×
🛱 🎇 🗐 🖪	·· 🖻	
Data My T My T H H H H H H H H H H H H H H H H H H H	est Package lassA lassA1 lassB lassB1 ctDiag1 ctDiag2 Standard Profile [UML_Standard_Profile ase Description Profile [UseCase_Profil	e.x

We can also see the changes reflected on the diagrams:

ActDiag1 ×	
8-1-8	▲・本林も田串日中「ノロコ
E Common	activity ActDiag1[ ActDiag1 ]
Anchor	
Image Shape	: ClassA
Activity Diagr	: ClassA1
<ul> <li>Action</li> <li>Object Node</li> </ul>	

## **Creating Operations into Classes**

Now, we will create some operations inside those classes.

2		=	li li	🤞 🖄	0
Nev	v Open Save	Print Import	Copy Paste	Format Undo	Rec
					_
$\diamond$	A	В	С	D	
1	OperA	ClassA	TRUE		
2	OperB	ClassB	FALSE		
3	OperA1	ClassA1	TRUE		
4	OperB1	ClassB1	FALSE		
5					
6					
7				-	

#### And import them:

Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
arget Package	Target Element Type	Target Stereotype	Target Diagram Type
y Test Package	Node	autoGeneratedName	Class Diagram
	ObjectFlow	constructor	Interaction Diagram
	OccurrenceSpecification	create	Communication Diagram
	OpaqueAction	destroy	Sequence Diagram
	OpaqueBehavior	destructor	Use Case Diagram
	OpaqueExpression	getter	State Machine Diagram
	Operation	HyperlinkOwner	Protocol State Machine Diagram
	OutputPin	InvisibleStereotype	Activity Diagram
	Package	setter	Implementation Diagram
	Parameter	TODO_Owner	Composite Structure Diagram
	ParameterSet	typeModifier	Behavior Diagram
	PartDecomposition		Any Diagram
	Pin		Static Diagram

Press Next to go the next screen.

Properties			CSV Data			
Name	Туре	Owner	0 1		2	
ownedComment	String	Element	OperA Cla	assA	TRUE	
abstract	boolean	Operation	OperB Cla	assB	FALSE	
eaf	boolean	Operation	OperA1 Cla	assA1	TRUE	
name	String	Operation	OperB1 Cla	assB1	FALSE	
owner	Element	Operation				
query	boolean	Operation				
			name owner static		Operation Operation Operation	0 1 2
			Key property	name Remov	e	÷ Save Import Map
				Rentov		Save import map

Press Finish and we see the changes reflected in the containment area:



Now, we'll put these Operations on the diagram:

9	🔊 🗄	<b>a</b>	Ē 🛱	💰 🕥 ·	· @ ·
New	v Open Save	Print Import	Copy Paste	Format Undo	Redo
$\diamond$	A	B	C	D	E
1	OperA	ClassA	TRUE	ActDiag1	
2	OperB	ClassB	FALSE	ActDiag2	
3	OperA1	ClassA1	TRUE	ActDiag1	
4	OperB1	ClassB1	FALSE	ActDiag2	
5					
6					
7					

## Start the plug-in.

lassOper.csv		C	hoose File ) Field Separator: ,
Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
Farget Package Ay Test Package	Target Element Type Association AssociationClass BehaviorExecutionSpecification BroadcastSignalAction CallBehaviorAction CallEvent CallOperationAction CentralBufferNode ChangeEvent Class ClearAssociationAction ClearStructuralFeatureAction ClearVariableAction	Target Stereotype autoGeneratedName HyperlinkOwner InvisibleStereotype TODO_Owner typeModifier	Target Diagram Type Class Diagram Interaction Diagram Communication Diagram Sequence Diagram Use Case Diagram State Machine Diagram Protocol State Machine Diagram Activity Diagram Implementation Diagram Composite Structure Diagram Behavior Diagram Any Diagram Static Diagram

## Press Next to go the next screen.

						L	Use First Row as Head
Properties			CSV Data				
Name	Туре	Owner	0	1	2	3	
ownedComment	String	Element	OperA	ClassA	TRUE	ActDiag1	
interactionOfAction	Interaction	CallOperationAction	OperB	ClassB	FALSE	ActDiag2	
loopNodeOfBodyP	LoopNode	CallOperationAction	OperA1	ClassA1	TRUE	ActDiag1	
loopNodeOfSetup	LoopNode	CallOperationAction	OperB1	ClassB1	FALSE	ActDiag2	
loopNodeOfTest	LoopNode	CallOperationAction					
sequenceNodeOfE	SequenceNode	CallOperationAction					
activity	Activity	CallOperationAction					
inStructuredNode	StructuredActivity	CallOperationAction					
leaf	boolean	CallOperationAction	Property N	laps			
name	String	CallOperationAction	Property Na	me	Owner		Column Index
synchronous	boolean	CallOperationAction	name		CallOpera	ationAction	0
synchronous	Doolean	calloperation/ction	Diagram				3
			K				1
			Key proper	ty name		Ŧ	J
			Add	Remo	VA		Save Import Man
			Aud	Kento	v.		Save import map
< Back Next	> Finish	Cancel					

After pressing Finish, the containment area gets updated...

000	Containment	×
🛱 🎇 🗐 🗖	·· 🖻	
🗉 🔁 Data		
📴 🛅 My '	Test Package	
(□-□-□)	ClassA	
(	ClassA1	
	ClassB	
<b>∲-</b>	ClassB1	
p-q.	ActDiag1	
	□ < >	
	< >	
	OperA	
	🔤 OperA1	
	ActDiag1	
	ActDiag2	
	_ < >	
	OperB	
	• OperB1	
	Standard Profile [UML Standard Profile	
	. Standard Profile [UML_Standard_Profile.	XII
ter and Ose	case Description Frome [Osecase_Prome	X.

...as well as the diagrams:



#### **Creating Control Flows between Operations**

Now, we'll tie these operations together with some control flows:

2				1	D	Ê	<i>S</i>	2	
New	v Open	Save	Print	Import	Сору	Paste	Format	Undo	
$\diamond$	A	1		В	С		D		
1	OperA		CFIO	w1	ActDiag1		OperA1		
2	OperB		CFlow2		ActDiag2		OperB1		
3	3								

## Start the plug-in.

ntrolFlow.csv			Field Separator: ,
Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
arget Package	Target Element Type Component ComponentRealization ConditionalNode ConnectionPointReference Connector ConsiderIgnoreFragment Constraint Continuation ControlFlow CreateLinkAction CreateLinkAction CreateObjectAction CreateObjectAction	Target Stereotype autoGeneratedName HyperlinkOwner InvisibleStereotype TODO_Owner typeModifier	Target Diagram TypeClass DiagramInteraction DiagramCommunication DiagramSequence DiagramUse Case DiagramState Machine DiagramProtocol State Machine DiagramActivity DiagramImplementation DiagramComposite Structure DiagramBehavior DiagramAny DiagramStatic Diagram

Press Next to go the next screen.

						E	Use First Row as Heade
Properties			CSV Data				
Name	Type	Owner	0	1	2	3	
ownedComment Client Supplier activity	String Element Element Activity	Element ControlFlow ControlFlow ControlFlow	OperA OperB	CFlow1 CFlow2	ActDiag1 ActDiag2	OperA1 OperB1	
guard inStructuredNode leaf name	ValueSpecification StructuredActivity boolean String	ControlFlow ControlFlow ControlFlow ControlFlow					
owner weight	Element ValueSpecification	ControlFlow ControlFlow	Property N Property Na	Maps Ime	Owner		Column Index
			name Diagram		ControlFlow		1 2
			target		ControlFlow		3
			Key propert	ty name		\$	Save Import Man
< Back Nex	t > Finish	Cancel	Add	Kemo	ve		Save Import Map

After pressing Finish, the changes are reflected in the containment area:



And on the diagrams:



# Creating and Populating DoDAF Diagrams

First, we'll start with a fresh containment area:



Now, we'll select to use the DoDAF module:

File	Edit	View	Layout	Diagrams	Op
	New Pr	oject			₩N
<b>6</b>	Open P	1	жo		
🔡 S	ave Pr	roject			₩S
🖪 S	ave Pr	roject A	As		
ē (	Close F	roject			
咸(	Close /	All Proj	ects		
Imp	ort Ma	agicDra	w Project.		
Imp	ort CS	V		合	<b>ж</b> I
Use	Modu	le			
Exp	ort				•
Sha	re Pac	kages.			
Save	e as In	nage			
<u>r</u>	rint				₩P
A P	Print P	review			
E F	Print O	ptions			

<u> </u>			
💽 1. Select module	<project.dir> Modulos pathi cinstall sosta (proj</project.dir>	files	
2. Module Settings	<install.root>/mod</install.root>	delLibraries	
Select module file.	CIL_Profile.xml Comverse DSL.mdzip Comverse Protocols.mdzip CORBA_IDL_Profile.xml DDL_to_UML_Type_Map.xm DoDAF constraints.mdzip DoDAF customization.mdzip DoDAF_Profile_2.0.mdzip EAI_Profile.xml EDOC_Profile.xml.zip EDOC_Profile.xml.zip EJB_Deployment_Profile.xml EJB_Deployment_Profile.xml Extended Matrix.mdzip Free_Form_Elements_Profile Module description:	Il.zip p I	
		< Back Next > (	Finish Cancel Help
screen.			
	☐ Module Accessibility	Module Load Mod	e
1. Select module	Read-only		
• 2. Module Settings			
Specify module settings.		Autoload with	prompt
	☑ Use Module Index	O Manual load	prompt
		) Manual load	
	Shared Package	Preferred Path	Mounted On
	DoDAF Profile		
	J.L	( Pack Novt > Fin	aich Cancel Hala

Press Finish to load the profile. With the profile loaded, we will now be able to build diagrams. We'll use the class diagram example, but make a few simple changes. Select the OV-2 diagram type when importing the diagrams. Bring up the plug-in.



Press Next to go the next screen.

					🗌 Use First Row as Header
Properties			CSV Data		
Name ownedComment context name owner Author base_Diagram	TypeOwnerStringElementElementDiagramStringDiagramElementDiagramStringDiagramInfoDiagramDiagramInfo		0 1 Diag1 This is D Diag2 This is D Diag3 This is D Diag4 This is D	iag 1 iag 2 iag 3 iag 4	
			Property Maps Property Name name ownedComment	Owner Diagram Element	Column Index 0 1
			Key property nam	e ove	÷ Save Import Map
< Back Nex	t > Finish	Cancel			

After pressing Finish, we see that several OV-2 diagrams have been created:

월 Contain 몲 Inheritance 참 Diagrams <> Model Ex	Diag1 ×
○○○ Containment ×	
문 때 월 집·· 戌 □- ▲ Data 申- ☐ DoDAF customization [DoDAF customization.me	Common Note Vote
田 Customization for SysML [MD_customization 日 日 My Test Package 日 日 Diag1 日 日 Diag2	■ Anchor Containment
Diag3 Diag4 ⊕ C₂ UML Standard Profile [UML_Standard_Profile.xn	Dependency     Image Shape     Separator
한  DoDAF Profile [DoDAF_Profile_2.0.mdzip] 한  SysML Profile [SysML Profile.mdzip] 한  UseCase Description Profile [UseCase_Profile.x	B OV-2 B Operational N P Needline
·() )·	Information E

#### **Creating Operational Nodes**

We can now populate them. This is even easier as it is just a matter of applying stereotypes. Let's create some operational nodes:

Bring up the plug-in and replicate the steps from Creating and Populating Class diagrams to create the class elements, but this time, choose the OperationalNode stereotype.

Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
arget Package	Target Element Type CentralBufferNode ChangeEvent Class ClearAssociationAction ClearStructuralFeatureAction ClearVariableAction Collaboration Collaboration CollaborationUse CombinedFragment CommunicationPath Component ComponentRealization ConditionalNode	Target Stereotype matrix template Missile Missile2 objectiveFunction Organization OrganizationType PerformanceParameterSet performanceRequirement Person physicalRequirement PropertySpecificType realization Requirement	Target Diagram Type Activity Diagram Business Process Diagram Class Diagram Communication Diagram Composite Structure Diagram Content Diagram CoRBA IDL Diagram Dependency Matrix Free Form Diagram Generic DDL Diagram Implementation Diagram Networking Diagram

When finished, the containment area and diagrams look like this:

Containment ×	R &	▲・本芸術時ませば  /ロス  ▲・留
Image: State Stat	Common Note Note Note Anchor Containment Containment Dependency Image Shape Separator OV-2 Operational N Needline Information E	<pre></pre>

#### **Creating Needlines**

Now, we'll draw the Needlines. Again just like creating the Class associations, only with a stereotype applied.



When done, the containment area and diagram will look like this:



## Prototyping Elements in a Test Model Before you Begin

In order to avoid confusion, it pays to test out what you want to do in an empty model before you try the same thing using the plug-in. For example, create a new Communication Diagram:

000	Containment	×			
B\$ 🕮 🗊 🖪 · 🛛	3				
🕞 🖾 Data					
H My lest	New Element		+		
E Sub UseCas	New Diagram	ite.x	•	圖 Class Diagram	
	New Relation Open in New Tab		•	Use Case Diagram Communication Diagram	
	Specification Use Case Numbering	¢J		া Sequence Diagram State Machine Diagram Protocol State Machine Diagram	
	Go To Convert To Related Elements		* * *	Activity Diagram Implementation Diagram Composite Structure Diagram	
•	Tools		+	SysML Diagrams	
🗢 Zoom 🖹 Do	Rename	F2		Comverse SAD	

Afterwards, your containment area will look like this:



The element at the bottom of the tree is the Diagram. It is owned by an Interaction, which is in turn owned by a Collaboration, which is finally owned by the package. If you had simply used the plug-in to create the diagrams and let it assign ownership to the package, here is what your containment area would look like after you were done:

OOO Containment	×
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E-a Data	
🗗 🛅 My Test Package	n
🗗 🛲 Untitled 1	H
白— 🗟 Untitled 1	
- 🖫 Untitled 1	H
— 🖃 : Untitled 1	Н
🗢 🔿 💠 Untitled 1	H
E Untitled 2	Н
— I Untitled 2	Н
E Untitled 2	Н
— 💷 Untitled 2	
- H CommDiag1	П
- 🖫 CommDiag2	U
🗗 🔂 UML Standard Profile [UML_Standard_Profile]	¥

As you can see, the diagrams make it into the model, but since they're not part of the structure that MagicDraw expects, they do not work properly. Attempts to add Lifelines to them fail.

## Using one CSV File to Import Multiple Types of Data

Up to this point, the examples have all been of CSV files that contain very specific information. However, some databases may not contain that level of discreetness or it may be difficult to get the data in such discreet sets. This example shows how one would import different elements from the same set of data.

First, let's examine the data:

2		🛓 🖥 🗅	🛍 🎸 💁	പ 💈	• 🔒	X. 🖬 🛔	1	00% • 🕢				
Ne	ew Open Save Print Import Copy Paste Format Undo Redo AutoSum Sort A-Z Sort Z-A Gallery Toolbox Zoom Help											
								Sheets	Charts	SmartArt Graphics	WordArt	
0	A	B	C	D	E	F		G	Н		J	
1	ElName	ElComment	ElKeyWord	RelatedEl	RelName	RelToDo	RelCo	mment	DiagName	DiagComment	DiagModDate	
2	Class1	Comment for Class1	Keyword for Class1	Class2	Assoc1	To Do for Assoc1	Comm	nent for Assoc1	Diag1	Comment for Diag1	12/13/07	
3	Class2	Comment for Class2	Keyword for Class2	Class3	Assoc2	To Do for Assoc2	Comm	nent for Assoc2	Diag1	Comment for Diag1	12/13/07	
4	Class3	Comment for Class3	Keyword for Class3	Class4	Assoc3	To Do for Assoc3	Comm	nent for Assoc3	Diag1	Comment for Diag1	12/13/07	
5	Class4	Comment for Class4	Keyword for Class4						Diag1			
6	Class5	Comment for Class5	Keyword for Class5	Class6	Assoc5	To Do for Assoc5	Comm	nent for Assoc5	Diag2	Comment for Diag2	7/6/07	
7	Class6	Comment for Class6	Keyword for Class6	Class7	Assoc6	To Do for Assoc6	Comm	nent for Assoc6	Diag2	Comment for Diag2	7/6/07	
8	Class7	Comment for Class7	Keyword for Class7	Class8	Assoc7	To Do for Assoc7	Comm	nent for Assoc7	Diag2	Comment for Diag2	7/6/07	
9	Class8	Comment for Class8	Keyword for Class8	Class9	Assoc8	To Do for Assoc8	Comm	nent for Assoc8	Diag2	Comment for Diag2	7/6/07	
10 11	Class9	Comment for Class9	Keyword for Class9						Diag2	Comment for Diag2		

Columns A, B, and C contain data about some Class elements we want to import. Columns D though G contain information about other classes that are associated with the class named in column A. Columns H, I, and J specify information about the diagrams that these classes and their relationships reside on. Notice how some of the data in rows 5 and 10 is blank. That's because there is no relationship to be created with the element in column A. If you were pulling this data out of a relational database, this sort of structure would be the result of an outer join.

Now, look at the containment area:



Now, we bring up the plug-in to create the diagrams:

nultidata.csv		Che	oose File ) Field Separator: ,
Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
Target Package	Target Element Type	Target Stereotype	Target Diagram Type
My Test Package	DestructionEvent	actorDiagram	Class Diagram
	Device	autoGeneratedName 👔	Interaction Diagram
	Diagram	conceptualView	Communication Diagram
	Duration	deploymentView	Sequence Diagram
	DurationConstraint 👔	designModel	Use Case Diagram
	DurationInterval	DiagramInfo	State Machine Diagram
	DurationObservation	HyperlinkOwner	Protocol State Machine Diagram
	ElementValue	implementationModel	Activity Diagram
	Enumeration	InvisibleStereotype	Implementation Diagram
	EnumerationLiteral	processView	Composite Structure Diagram
	ExecutionEnvironment	TODO_Owner	Behavior Diagram
	ExecutionEvent	typeModifier	Any Diagram
	ExecutionOccurrenceSpecifica 🔻	useCaseModelDiagram 👻	Static Diagram
		useCaseView	

Press Next to move to the next screen.

Properties	Turne	Ourser	CSV Data	0	0
Name ownedComment context name owner Creation date Author Modification date base_Diagram	Type String Element String Element date String date Diagram	Owner Element Diagram Diagram DiagramInfo DiagramInfo DiagramInfo DiagramInfo	6 7 RelComm Diag r Comment Diag r Comment Diag r Comment Diag r Comment Diag Property Maps Property Name name ownedComment Modification date	8 Name DiagComment Comment for Comment for Comment for Owner Diagram Element DiagramInfo	9 nt <u>DiagModDate</u> r Diag1 12/13/07 r Diag1 12/13/07 r Diag1 12/13/07 <u>Column Index</u> 7 8 9
			Key property nam	ne	\$ Save Import Ma

Notice how we've only selected the columns that are concerned with the diagrams. Now, we'll save this import to the model. Press Save Import Map.

Maps	Map Groups
Name MultiDiag	
indice lag	
	(Save Import) (Cancel)
	Save import Cancer
	1

Press Save Import to save and go back to the Mappings Screen.

When you press finish, you'll see the following text in the Messages Window:

```
Import Wizard Started
Import Started
Row 1 loaded: name = Diag1 Element ownedComment = Comment for
Diag1 DiagramInfo Modification date = 12/13/07
Row 2 loaded: name = Diag1 Element ownedComment = Comment for
Diag1 DiagramInfo Modification date = 12/13/07
Row 3 loaded: name = Diag1 Element ownedComment = Comment for
Diag1 DiagramInfo Modification date = 12/13/07
Error on row: 4 No value in name column. Skipping this row.
```

```
Row 5 loaded: name = Diag2 Element ownedComment = Comment for
Diag2 DiagramInfo Modification date = 7/6/07
Row 6 loaded: name = Diag2 Element ownedComment = Comment for
Diag2 DiagramInfo Modification date = 7/6/07
Row 7 loaded: name = Diag2 Element ownedComment = Comment for
Diag2 DiagramInfo Modification date = 7/6/07
Row 8 loaded: name = Diag2 Element ownedComment = Comment for
Diag2 DiagramInfo Modification date = 7/6/07
Error on row: 9 No value in name column. Skipping this row.
Import Complete - 9 records processed.
```

We will also see changes to the containment area:



The CSV Imports package was created and populated and the My Test Package was populated with the two diagrams. Notice how the plug-in processed seven valid lines, but only two diagrams were created. This is because the diagram information was duplicated. Loading duplicate data does not cause errors, it merely overwrites the previous data.

Now, let's move on to importing the classes from the file. Bring up the plug-in.

Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
Farget Package	Target Element Type AssociationClass BehaviorExecutionSpecification BroadcastSignalAction CallBehaviorAction CallEvent CallOperationAction CentralBufferNode ChangeEvent Class ClearAssociationAction ClearStructuralFeatureAction ClearVariableAction Collaboration	Target Stereotype autoGeneratedName auxiliary boundary control Customization entity focus HyperlinkOwner implementationClass InvisibleStereotype realization specification TODO_Owner type	Target Diagram Type Activity Diagram Business Process Diagram Class Diagram Communication Diagram Composite Structure Diagram Content Diagram CORBA IDL Diagram Dependency Matrix Free Form Diagram Generic DDL Diagram Implementation Diagram Networking Diagram

Press Next to move to the next screen.

Properties			CSV Data	l				
Name	Туре	Owner	ElName	ElComment		ElKeyWord	RelatedEl	RelName
ownedComment	String	Element	Class1	Comment for	Class1	Keyword f.	. Class2	Assoc1
omponentOfPack	Component	Class	Class2	Comment for	Class2	Keyword f.	Class3	Assoc2
abstract	boolean	Class	Class3	Comment for	Class3	Keyword f.	Class4	Assoc3
ctive	boolean	Class	Class4	Comment for	Class4	Keyword f.		
eaf	boolean	Class	Class5	Comment for	Class5	Keyword f.	Class6	Assoc5
name	String	Class						)+
owner	Element	Class						
owningPackage	Package	Class						
backage	Package	Class	Property	Mans				
			Descent	wap5	0		Caluma Index	
			Property N	lame	Owner		Column Index	
			name		Class		0	
			ownedCor	nment	Element		1	
			Diagram				/	
				••• [ •••••				
			Key proper	ty name		Ŧ		
			Add	Remove		(	Save Impor	rt Map
				,				

Again, we select only a subset of the columns. Press Finish and the containment area shows the created classes:





Inspection of diagram Diag1 reveals these changes:

Now, let's import the relationships. Bring up the plug-in again.

nuitidata.csv			Choose File Field Separator:
Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
Target Package My Test Package	Target Element Type ActionInputPin Activity ActivityFinalNode ActivityParameterNode ActivityPartition Actor AddStructuralFeatureValueAct AddVariableValueAction AnyReceiveEvent Artifact Association AssociationClass BehaviorExecutionSpecification	Target Stereotype autoGeneratedName HyperlinkOwner InvisibleStereotype realization specification TODO_Owner typeModifier useCaseOwner	Target Diagram TypeClass DiagramInteraction DiagramCommunication DiagramSequence DiagramUse Case DiagramState Machine DiagramProtocol State Machine DiagramActivity DiagramImplementation DiagramComposite Structure DiagramBehavior DiagramAny DiagramStatic Diagram

Press Next to move to the next screen.

Properties			-CSV Data				
Name	Туре	Owner	3	4	5	6	7
ownedComment	String	Element	RelatedEl	RelName	RelToDo	RelComment	Dia
Client	Element	Association	Class2	Assoc1	To Do for Assoc1	Comment for Assoc1	Dia
Supplier	Element	Association	Class3	Assoc2	To Do for Assoc2	Comment for Assoc2	Dia
componentOfPack	Component	Association	Class4	Assoc3	To Do for Assoc3	Comment for Assoc3	Dia
abstract	boolean	Association					Dia
derived	boolean	Association		0			•
eaf	boolean	Association					
name	String	Association					
owner	Element	Association	Property M	/aps			
owningPackage	Package	Association	Property Na	me	Owner	Column Index	
package	Package	Association	name	line	Association	4	
TODO	String	TODO_Owner	Diagram		Association	7	
base_Element	Element	TODO_Owner	source		Association	, 0	
			target		Association	3	
			ownedCom	ment	Flement	6	
			TODO		TODO Owner	5	
						-	
			Key proper	ty name		*	
			Add	Remo	ve	Save Import M	/lap

🗹 Use First Row as Header

After pressing Finish, when we review the containment area, we see that the relationships have been added:







## **Custom Model Elements Revisited: Requirements**

One of the more powerful aspects of MagicDraw is the ability to apply stereotypes to an element and thus affect the way the element is displayed and operates within your model. To further demonstrate this, we will build a SysML requirements diagram. First, we start with a new model.



In this example, I already know that most of my model elements will not be owned by the package. Therefore, I can change the order of the import from the standard and import the elements first.

Start by loading the SysML profile module:

<ul> <li>1. Select module</li> <li>2. Module Settings</li> </ul>	<project.dir> Modules path: <install.root>/profiles <install.root>/modelLibraries </install.root></install.root></project.dir>	
Select module file.	RM_ODP_Profile.xml RUP_Extensions_Profile.xml SysML constraints.mdzip SysML Profile.mdzip Time & Performance_Profile.xml UML completeness constraints.mdzip UML correctness constraints.mdzip WML_Standard_Profile.xml Module description:	
	< Back Next > Finish Cancel He	elp

Press Next to move to the next screen.

<ul> <li>1. Select module</li> <li>2. Module Settings</li> <li>Specify module settings.</li> </ul>	Module Accessibility <ul> <li>Read-only</li> <li>Read-write</li> </ul> Vse Module Index Module Packages:	Module Load M Always load Autoload Autoload w Manual load	lode d ith prompt d
	Shared Package	Preferred Path	Mounted On
	< Back	Next > Finish	Cancel Help

Press Finish to load the module. Now, start the plug-in.
leqMaster.csv		Cho	ose File Field Separator:
Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
arget Package y Test Package	Target Element Type CallEvent CallOperationAction CentralBufferNode ChangeEvent ClearS ClearAssociationAction ClearStructuralFeatureAction ClearVariableAction Collaboration CollaborationUse CombinedFragment CommunicationPath Component	Target Stereotype menaceRequirement InvisibleStereotype objectiveFunction performanceRequirement physicalRequirement PropertySpecificType realization RequirementRelated specification Subsystem System System context TODO_Owner	Target Diagram Type Activity Diagram Business Process Diagram Class Diagram Communication Diagram Composite Structure Diagram Content Diagram CORBA IDL Diagram Dependency Matrix Free Form Diagram Generic DDL Diagram Implementation Diagram Networking Diagram Oracle DDL Diagram

Press Next to move to the next screen.

Properties			CSV Data				
Name	Туре	Owner	Name	Owner	DeriveFrom	Text	DiagName
ownedComment componentOfPack abstract active leaf	String Component boolean boolean boolean	Element Class Class Class Class	Authorization Authorization Types Level Types Object Type Authority	Authorizat Authorizat Authorizat Authorizat	Object Type	Authorizat Types of Type of it Type of A	My Auth T My Auth T My Auth T My Auth T
ownier owningPackage package base_Class Text Id	Package Package Class String String	Class Class Requirement Requirement Requirement	Property Maps Property Name name owner Text	Owner Class Class Require	ement	Colum 0 1 3	n Index
			Key property nam	ne		¢ Save	Import Map

Notice that the Owner column for the Authorization element is blank. This is the only element that is owned by the package. Leaving the value blank causes the plug-in to substitute the package. Now,

the containment area looks like this:



With that done, we will now create the diagrams.

## Start the plug-in.

requiraster.csv			Field Separator: ,
Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
Target Package	Target Element Type DestructionEvent Device Diagram Duration DurationConstraint DurationObservation ElementValue Enumeration EnumerationLiteral ExecutionEnvironment ExecutionEvent	Target Stereotype actorDiagram Allocated autoGeneratedName BlockHierarchy conceptualView ContextDiagram deploymentView designModel Diagram Description DiagramInfo diagramUsage HyperlinkOwner implementationModel InvisibleStereotype	Target Diagram Type SV-9 Diagram SysML Activity Diagram SysML Block Definition Diagra SysML Internal Block Diagram SysML Package Diagram SysML Parametric Diagram SysML Vac Case Diagram Time Diagram Top-Level Context Diagram TV-1 Diagram TV-2 Diagram Use Case Diagram

Press Next to move to the next screen.

Properties			-CSV Data			
Name	Туре	Owner	riveFrom T	ext	DiagName	DeriveReq RefineNam
ownedComment String context Element name String owner Element		ring Element ement Diagram ring Diagram lement Diagram		n order t	My Auth Types My Auth Types My Auth Types My Auth Types My Auth Types	
			Property M	laps	Oumer	Column Index
			name	ne	Diagram	4
			Key propert	y name	4	\$
			Add	Remo	ove	Save Import Map

Press Finish and we have a new diagram in the model.



Now, we'll populate the diagram with requirements. Start the plug-in.

ReqMaster.csv		Cho	ose File Field Separator: ,
Load Import Map	Create Map Group	Execute Map Group	Set Delimiter
Target Package My Test Package	Target Element Type CallEvent CallOperationAction CentralBufferNode ChangeEvent Class ClearAssociationAction ClearStructuralFeatureAction ClearVariableAction Collaboration CollaborationUse CombinedFragment CommunicationPath Component	Target Stereotype Internacesequirement InvisibleStereotype matrix template objectiveFunction performanceRequirement physicalRequirement PropertySpecificType realization RequirementRelated row_filter specification Subsystem System	Target Diagram Type Activity Diagram Business Process Diagram Class Diagram Communication Diagram Composite Structure Diagram Content Diagram Dependency Matrix Free Form Diagram Generic DDL Diagram Implementation Diagram Networking Diagram Oracle DDL Diagram

It may not have been necessary to reapply the Requirement stereotype, but we'll do it just in case. Press Next to move to the next screen.

Properties			CSV Data				
Name	Туре	Owner	Name	Owner	DeriveFrom	Text	DiagName
ownedComment componentOfPack abstract active eaf name owner owningPackage package package base_Class Fext d	String Component boolean boolean String Element Package Package Class String String	Element Class Class Class Class Class Class Class Class Class Class Requirement Requirement Requirement	Authorization Authorization Types Level Types Object Type Authority Property Maps Property Name name Diagram	Authorizat Authorizat Authorizat Authorizat	Object Type	Authorizat Types of Type of it Type of A Column 1 0 4	My Auth Type My Auth Type My Auth Type My Auth Type
			Key property nam	ne		\$ Save I	mport Map

Press Finish and look what we have on our diagram.

Common		- Internet in the second se							
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Problem				Id = * *	· · · · · · · · · · · · · · · · · · ·				
Rationale			(1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	Text = "Type	e of	$+\cdots+\frac{1}{2}+\cdots+\frac{1}{2}+\cdots+\frac{1}{2}+\cdots+\frac{1}{2}$	$1+1+\frac{1}{2}+1+1+\frac{1}{2}+1+1+\frac{1}{2}+1$	+++++++++++++++++++++++++++++++++++++++	
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Text Box 🔹						<	<requirement>&gt;</requirement>		
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Use Case Diag Requirements Requirement	> Package Level	E	< <requirement>&gt; Selected Elements Level</requirement>	< <requirement>&gt; Project Level</requirement>	< <requirement>&gt; Edit</requirement>	View	< <requirement>&gt; Create</requirement>	< <requirement>&gt;</requirement>	<pre>&gt; Annotate Id = " "</pre>
BIOCK Definition Use Case Diag Requirements Requirement Business Re •	<pre></pre>	T Model Level I d = ** Text = **	<requirement>&gt; Selected Elements Level</requirement>	< <requirement>&gt;</requirement>	<requirement>&gt; Edit Id = ** Toxt = **</requirement>	<pre></pre>	<pre>&gt; Create Id = * * Text = **</pre>	<pre></pre>	<requirement>&gt; <u>     Annotate</u> Id = * * Text = **</requirement>
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Use Case Diag Requirements Requirement Business Re • Satisfy Derive Copy Trace	<pre>e<requirement>&gt; Package Level Id = ** Text = ** </requirement></pre>	g         < <requirement>&gt; g           Id = **         Id = **           Text = **         Id = **</requirement>	<requirement>&gt; Selected Elements Level Id = * * Text = ** <requirement>&gt; mit Visibility of Relation</requirement></requirement>	<pre></pre> Sector 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1	Constraint (Constraint) (Constr	S View Id= ** Taxt= **	<pre><requirement>&gt; □ Create Id = ** Text = **</requirement></pre>	<pre></pre> <pre></pre> <pre></pre> <pre>Secute </pre> <pre>Id = ** </pre> <pre>// Toxt = ** </pre>	<pre><requirement>&gt; Annotate Id = ** Toxt = **</requirement></pre>
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You can, however, import other types of relationships between requirements. Bring up the plug-in once more.



## Press Next to move to the next screen.

Properties			CSV Data				
Name	Туре	Owner	0	1	2	3	4
ownedComment Client Supplier componentOfPack mapping name owner owner	String Element Element Component OpaqueExpression String Element Package	Element Abstraction Abstraction Abstraction Abstraction Abstraction Abstraction	Name Authorization Authorization Level Types Object Type	Owner Authorization Authorization Types Authorization Types	DeriveFrom	Text Authorizat Types of Type of it	DiagName My Auth T My Auth T My Auth T
owningrackage	rackage	Abstraction	Property Maps				
			Property Name	Owner		Column Inde:	x
			name	Abstraction		5	
			Diagram			4	
			target	Abstraction		0	
			source	Abstraction		2	
			Key property	name	\$		
			Add	Remove		Save Impo	ort Map

Press Finish and we can see the effects on the diagram:

Id = * * Text = *Type of Authority*	
id = ** Text = "Type of items that a user is	
Id = * * Text = *Type of items that a user is	+++++
authorized to access"	++++ • • • + + • • • • • • • • • • • • •

And in the containment area:

