

# Tables

## Introduction

You can use MagicDraw tables to represent and modify information about the properties of model elements and/or relationships between them. You can create four kind of tables in MagicDraw: Generic Table, Glossary Table, Metric Table, and Instance Table. The different purposes for each table are illustrated below:

- **Generic Table** allows you to manage selected elements and their properties in a single place.

The example below is from a *Generictable* sample model.

#	Name	Visibility	Documentation
1	Student	public	A person attended to study or studying the course. Student is supervised and provided with the support of a teacher or a group of teachers.
2	Teacher	public	A person who designs the course and/or prepares the learning material for the course. He/she supervises and provides with a support a student or a group of students during the study process.
3	Class	public	A physical place where students and a teacher or teachers meet face-to-face for learning purposes.
4	Course	public	A unit of teaching provided in various formats (lectures, meetings, seminars, self-learning, etc.). Usually the one course covers the one subject. The course is designed and prepared by a teacher or a group of teachers. The course is designed for students.

- **Glossary Table** allows you to define specific term(s) and gives you the ability to reuse the term(s) anywhere in your model.

The example below is created only for this image and is not saved in any of the sample models.

#	Term	Description
1	Author	A user who has committed a new <i>project version</i> .
2	Comment	Optional description of changes in the committed <i>version</i> .
3	Project	A physical working unit that consists of model, model visualizations (diagrams, tables, matrices, etc.), configuration data, and references to other elements residing in modules.
4	Project category	<i>Project category</i> concept which enables visual grouping of projects in Teamwork Server <i>repository</i> .
5	Repository	A storage place for projects and their versions managed by the Teamwork Server.
6	Version	A unique number assigned to the committed <i>project</i> . <i>Project version</i> numbers begin at zero (for the initial <i>version</i> ) and increase with every new <i>project version</i> .

- **Instance Table** allows you to manage an Instance Specification of your model in spreadsheet form.

The example is from *SpacecraftMassRollup* sample model.

#	Name	ma (kg)	me (kg)	mr (kg)	margin (kg)
1	spacecraft	130.0	95.0	15.0	35.0
2	telecom	35.0	27.0	5.0	8.0
3	amplifier	10.0	8.0	10.0	2.0
4	antenna	20.0	19.0	20.0	1.0
5	propulsion	80.0	68.0	7.0	12.0
6	tank	44.0	38.0	44.0	6.0
7	thruster	29.0	30.0	29.0	-1.0

- **Metric Table** allows you to collect various metrics used to evaluate the current state of your model.

The example below is from *MagicLibrary requirements* sample model.

#	Name	Metric Suite	Requirements	Covered By Design	Covered By Design Percentage
1	2014 12 15	Requirement Coverage (Treat Owner As Grouping Element)	38	35	92.11

## Table areas

Before working with tables, you should understand the structure of all tables supported by MagicDraw. All tables contain the following areas:

- **Table toolbars** allow you to quickly access the options for managing data in the table. [Learn more about table toolbars >>](#)
- **Criteria area** allows you to define the elements that you want to display in the table, specify the scope of the table, and filter necessary information in tables which contain large amount of data. [Learn more about Criteria area >>](#)
- **Grid** displays data according to the defined **criteria area**. You can modify the displayed data in the grid by editing cells, removing, hiding, creating new, or selecting other options from the **table toolbar**. The grid consists of:

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### Basic features of tables

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### Specific features of tables

- [Specific table toolbar buttons](#)
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- Rows which appear along the side of the table, and are labeled using numbers starting with 1. Each table row represents an element.
- Columns which appear along the top of the table, and are labeled using element property names. Each table column represents element properties.
- Cells are the intersections of every row and column which represent element property values.

Glossary of Domain model...

Table toolbars: Add New, Add Existing..., Delete, Remove From Table, Export

Criteria area: Element Type: Class, Scope (optional): Drag elements from (s), Filter: C-

#	Name	Visibility	Documentation	Attribute
1	Student	private	A person attended to study or studying the course. Student is supervised and provided with the support of a teacher or a group of teachers.	<ul style="list-style-type: none"> <li>Class [0..*]</li> <li>personal ID</li> <li>surname</li> <li>e-mail</li> <li>birth place</li> <li>name</li> </ul>
2	Teacher	protected	A person who designs the course and/or prepares the teaching material for the course. Holds experience and provides with a support a student or a group of students during the study process.	<ul style="list-style-type: none"> <li>Class [0..*]</li> <li>Class [0..*]</li> <li>name</li> <li>surname</li> <li>e-mail</li> <li>personal ID</li> <li>birth day</li> </ul>
3	Course	public	A unit of teaching provided in various formats (lectures, meetings, seminars, self-learning, etc.). Usually the one course covers the one subject. The course is designed and prepared by a teacher or a group of teachers. The course is designed for students.	<ul style="list-style-type: none"> <li>Class [0..*]</li> <li>Class [0..*]</li> <li>Teacher [1]</li> <li>name</li> <li>code</li> <li>description</li> </ul>
4	Class	public	A physical place where students and a teacher or teachers meet face-to-face for learning purposes.	<ul style="list-style-type: none"> <li>Course [1]</li> <li>Student [1..*]</li> <li>Teacher [1]</li> <li>period</li> <li>schedule</li> </ul>

Grid labels: Columns, Rows, Cell