

# Tables





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





## Introduction

You can use modeling tool tables to represent and modify information about the properties of model elements and/or relationships between them. You can create four kinds of tables: 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 [generic table.mdzip](#) 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 the 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 <a href="#">project version</a> .
2	 Comment	Optional description of changes in the committed <a href="#">version</a> .
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	<a href="#">Project category</a> concept which enables visual grouping of projects in Teamwork Server <a href="#">repository</a> .
5	 Repository	A storage place for projects and their versions managed by the Teamwork Server.
6	 Version	A unique number assigned to the committed <a href="#">project</a> . <a href="#">Project version</a> numbers begin at zero (for the initial <a href="#">version</a> ) and increase with every new <a href="#">project version</a> .

- [Instance Table](#) allows you to manage an Instance Specification of your model in spreadsheet form. The example is from [SpacecraftMassRollup.mdzip](#) 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.mdzip](#) sample model.

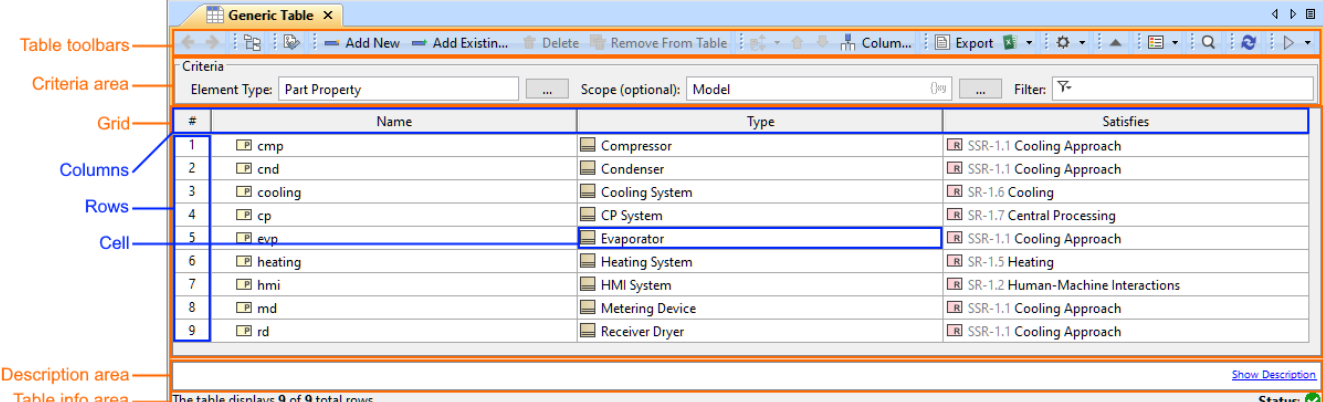
#	Name	Metric Suite	 Requirements	Covered By Design	 Covered By Design Percentage
1	 2014 12 15	 Requirement Coverage (Treat Owner As Grouping Element)	38	35	92, 11

## Table areas

Before working with tables, you should understand their structure. 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 that contain large amounts 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:
  - *Rows* that appear along the side of the table, and are labeled using numbers starting with 1. Each table row represents an element .
  - *Columns* that 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.
- *Description area* allows you to view the general information regarding the purpose and functions of the table.
- *Table info area* allows you to view the table display information. On the left, you can see the number of displayed and total rows; on the right, the status, indicating whether the table is still loading  or fully loaded .



The screenshot shows the 'Generic Table' window with the following components labeled:

- Table toolbars:** The top toolbar containing buttons for 'Add New', 'Add Existin...', 'Delete', 'Remove From Table', 'Column...', 'Export', and other controls.
- Criteria area:** The section below the toolbar with 'Element Type: Part Property', 'Scope (optional): Model', and a 'Filter' field.
- Grid:** The main table area with columns '#', 'Name', 'Type', and 'Satisfies'.
- Columns:** Points to the column headers of the grid.
- Rows:** Points to the row numbers in the grid.
- Cell:** Points to a specific data cell in the grid.
- Description area:** The area below the grid, currently showing a 'Show Description' link.
- Table info area:** The bottom status bar showing 'The table displays 9 of 9 total rows.' and a 'Status: ✓' indicator.

#	Name	Type	Satisfies
1	cmp	Compressor	SSR-1.1 Cooling Approach
2	cnd	Condenser	SSR-1.1 Cooling Approach
3	cooling	Cooling System	SR-1.6 Cooling
4	cp	CP System	SR-1.7 Central Processing
5	evp	Evaporator	SSR-1.1 Cooling Approach
6	heating	Heating System	SR-1.5 Heating
7	hmi	HMI System	SR-1.2 Human-Machine Interactions
8	md	Metering Device	SSR-1.1 Cooling Approach
9	rd	Receiver Dryer	SSR-1.1 Cooling Approach

#### Basic features of tables

- [Table toolbars](#)
- [Table Criteria area](#)
- [Basic tasks in tables](#)

#### Specific features of tables

- [Instance table](#)
- [Generic table](#)
- [Glossary table](#)
- [Metric table](#)