# Entities

![Image of Arena software interface with focus on Entity settings]

In the Arena software, under the **Entity** settings, you can add and configure entities. Here is a table showing the settings for an entity labeled "Customer":

<table>
<thead>
<tr>
<th>Entity Type</th>
<th>Initial Picture</th>
<th>Holding Cost / Hour</th>
<th>Initial VA Cost</th>
<th>Initial RVA Cost</th>
<th>Initial Waiting Cost</th>
<th>Initial Tran Cost</th>
<th>Initial Other Cost</th>
<th>Report Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer</td>
<td>Picture Woman</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td></td>
</tr>
</tbody>
</table>

To add a new entity row, double-click the area provided in the table. The Entity settings window will open, where you can specify the entity type, initial picture, and cost details.
Create Module

drag & drop

double-click
Delay Process

Delay for processing time

holds entity in this module for some period of time
Connecting Modules

Object → Connect

then select output of one module and input of next module

(watch for green & red boxes on terminals)
Resources

<table>
<thead>
<tr>
<th></th>
<th>Name</th>
<th>Type</th>
<th>Capacity</th>
<th>Busy / Hour</th>
<th>Idle / Hour</th>
<th>Per Use</th>
<th>State Set Name</th>
<th>Failures</th>
<th>Report Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Clerk 1</td>
<td>Fixed Capacity</td>
<td>1</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td></td>
<td>0 rows</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Clerk 2</td>
<td>Fixed Capacity</td>
<td>1</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td></td>
<td>0 rows</td>
<td></td>
</tr>
</tbody>
</table>

Double-click here to add a new row.
Processes Requiring Resources

**Seize resource**

**Delay** for processing time

**Release resource**
Processes Requiring Resources
Dispose Module
Decisions

right-click here to bring up expression builder

NQ(Register 1.Queue) <= NQ(Register 2.Queue)
Expression Builder

The image shows a software interface for building expressions. The main window is labeled "Decide" and contains fields for Name, Type, If, and Value. The Value field contains the expression "NQ(Register 1.Queue) <= NQ(Register 2.Queue)". A second window labeled "Expression Builder" displays the expression "NQ(Register 1.Queue) <= NQ(Register 2.Queue)" with various options for expression type and values.
Complete Simulation
Resource Animation
Dynamic Plots

Expression: NQ(Register 1.Queue)

# History Points: 4000
Simulation Run Setup

Run → Setup...

- **Number of Replications:** 1
- **Start Date and Time:** September 15, 2009, 12:38:45 PM
- **Warm-up Period:** 0.0
- **Replication Length:** 24
- **Hours Per Day:** 24
- **Terminating Condition:**

Initialize Between Replications:
- Statistics
- System

Time Units:
- Hours

Base Time Units:
- Hours

Array Sizes: