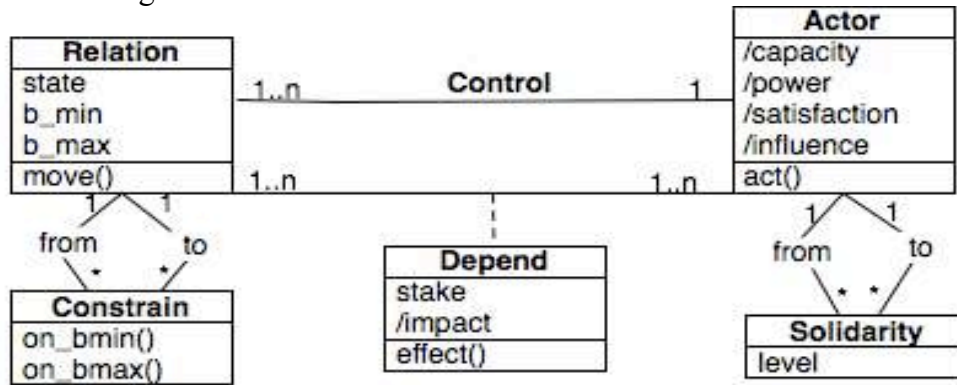


Organization Model

The structure of an organization is modelled in accordance with the meta-model as follows:



note: The *Model Editor* and *Parameters Editor* windows are in the read-only mode when windows for *Analysis* or *Simulation* are open; you can't simultaneously modify and study an organization model.

Model Editor

To define the list of Actors and Relations

You can **Add**, **Delete** or **Rename** an Actor (left hand side) or a Relations (right hand side)

Edit: to edit the description of the selected actor or relation; each description must be **saved** separately;

The edition of a relation includes the possibility to define a qualitative scale for the state of the relation. So, a behaviour of the actor which controls the relation is associated to each value of the relation state.

Parameters Editor

Various panels for completing the model

Controls: the controller actor of each relation, and the lower (*Bmin*) and upper (*Bmax*) bounds of its state. *Frequency* is the probability of the relation to be activated at each step of a simulation.

Stakes: the stakes of each actors on the relations he depends on. By default, the sum of the stakes of each actor is expected to equal 10.

Effects: The effect function of each relation (in row) on each actor (in column).

The main types of functions are *constant*, *linear*, *quadratic* and *sigmoid*. The x-axis corresponds to the relation state (i.e. the controller actor behaviour) and the y-axis corresponds to the effect of the relation state on the depending actor (i.e. the gained capability to reach his goals). Avoid to use constant functions when the stake is not null.

Keep the *default* function when the actor has a null stake on the relation.

Solidarities: the solidarity of each actor (in row) for others (in column).

Constraint: the constraint exerted by the state of a relation (in row) on the *Bmin* and *Bmax* value of another relation (in column).

In the **Edit Effect** window, the x-axis corresponds the state of the constraining relation, and the y-axis corresponds to the *Bmin* and *Bmax* values of the constrained relation.

The *Lower Control* function (in grey) fixes the *Bmin* value of the constrained relation; the *DefaultMin* function is $y = -10$

The *Upper Control* function (in yellow) fixes the *Bmax* value of the constrained relation; the *DefaultMax* function is $y = 10$.

Fuzzy Stakes, Fuzzy Solidarities: For the Stakes and for the Solidarities (cf. above), allows to give the lower and upper bounds. In the course of simulations, a random value will be chosen within this range.

Do not forget to **Apply** to save the values you entered.

Save report: Generates a file containing all the items of the organization model.