Stochastic i* Models (Models that Change over Time)

We extend i* to enable analysis where the Leaf Nodes in the model change over time.

Recall to evaluate goal models we use the following evaluation labels.

Denied ✗ ✓ Satisfied
Partially Denied ✗ ✓. Partially Satisfied

Note: Unknown and Conflict labels are not used for Leaf Nodes in analysis.

If the Leaf Nodes change *Stochastically* over time, this means that in the next state they can have any of the evaluation labels including the same one as the previous state.

Below is an example of the how a Stochastic Leaf Node might change over time.