

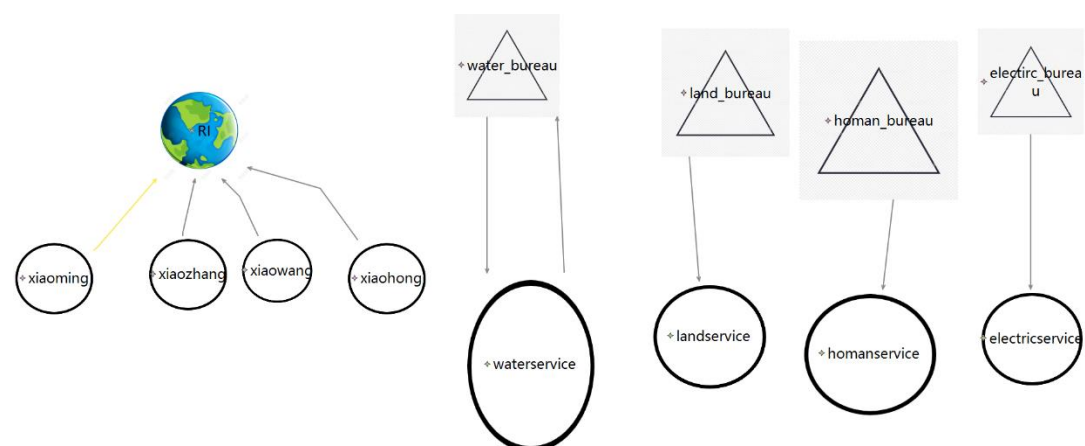
\*stimulus generation\* and \*stimulus reception\*: A stimulus generation event occurs when an

object executes an action that invokes an operation on another object (the \*receiver\*) or sends a signal to it. The effect of the stimulus generation event is the creation and dispatching of a stimulus that identifies the parameters of the communication (the operation invoked, the values of the parameters, etc.).

\*scenario start event\* and \*scenario end event\* : In addition to the stimulus generation and stimulus reception events, in a number of analyses it is also useful to consider the events that occur when a scenario starts and ends its execution (\*scenario start event\* and \*scenario end event\* respectively).

client: This model is used in cases where the relationship between the clients and resources can be viewed as static. This does not necessarily mean that it is static, but simply that the dynamics of usage are not relevant to the model analysis on hand. The domain model in this case includes an explicit \*client\*, which is also a kind of instance. In this case, however, the notion of resource services is not required.

目标模型图形建模:



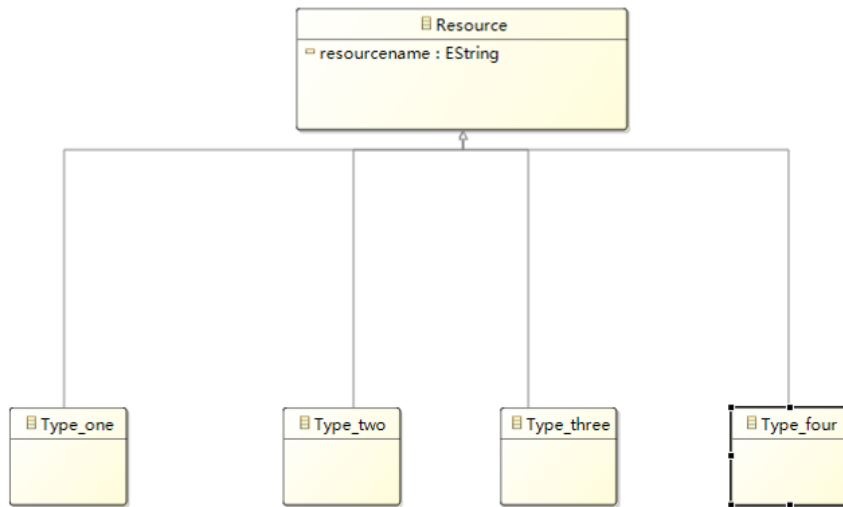
说明：做了几个简单的图形建模，将 client 类中的四个属性与 resourceinstance 类相连接，然后将 resourceserviceinstance 中的四个属性和 resourceinstance 中的四个属性相对应连接。

目标模型与 OMG 标准模型转换：

元模型 sptp.ecore

- platform:/resource/Sptps2Resources/Sptps.ecore
  - Sptps
    - ResourceServiceInstance
      - water\_control\_bureau : EString
      - land\_bureau : EString
      - homan\_bureau : EString
      - electric\_bureau : EString
      - water\_type : ResourceService
      - land\_type : ResourceService
      - homan\_type : ResourceService
      - electric\_type : ResourceService
    - ResourceService
    - Sptp
    - EventOccurence
      - StimulusReception -> EventOccurence
      - StimulusGeneration -> EventOccurence
      - ScenarioEndEvent -> EventOccurence
      - ScenarioStartEvent -> EventOccurence
    - UsageDemand -> EventOccurence
      - ResourceUsage
      - DynamicUsage -> ResourceUsage
      - StaticUsage -> ResourceUsage
    - Scenario -> DynamicUsage
    - ActionExecution -> Scenario
    - Instance
      - ResourceInstance -> Instance
      - client -> StaticUsage, Instance
    - Descriptor
      - Resource -> Descriptor

输出端模型



说明：输出端元模型是四种资源类型，用于转换原模型中 resourceserviceinstance 部分和 resourceinstance 部分

模型截图、映射关系说明、源码及视频演示链接 、模型转换，包含详细的说明转换的内容和依据、源码及视频演示链接：

<https://github.com/hzy1721/ParkShare.git>