Connectivity representation in Bigraphical Reactive Systems using Names

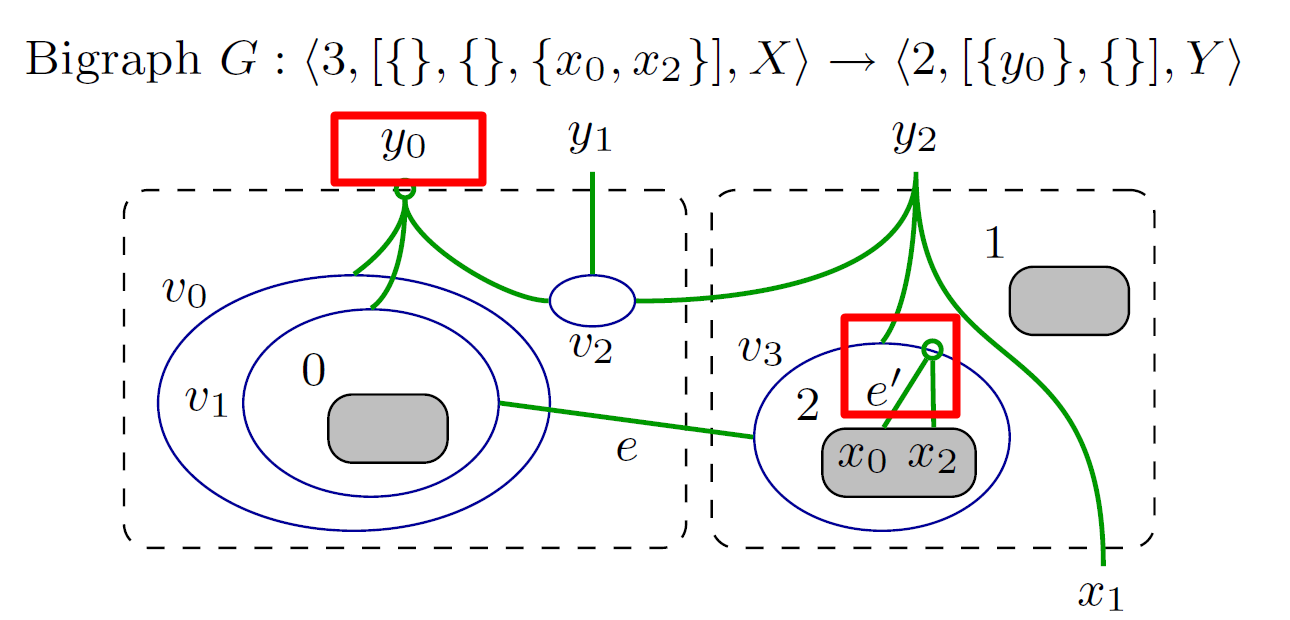
**Open vs. closed**

*Open name*: is a link that is defined using an outername. For example, Room [a] | Room[a], outer name is a.

*Closed name*: is a link the is an edge. For example, /b (Room [b] | Room[b])

**Bound name**

Bound name: is a link (hyper edge) in which all the nodes are located within the same place graph.



**Alternative way to represent connectivity**

* Define connectivity as entities. For example, PhysicalConnectivity & CyberConnectivity with one link each so that it can be connected to other assets.
* Define a *context* entity which would contain all connections defined.
* Link connections in the context with their assets in the smart building.