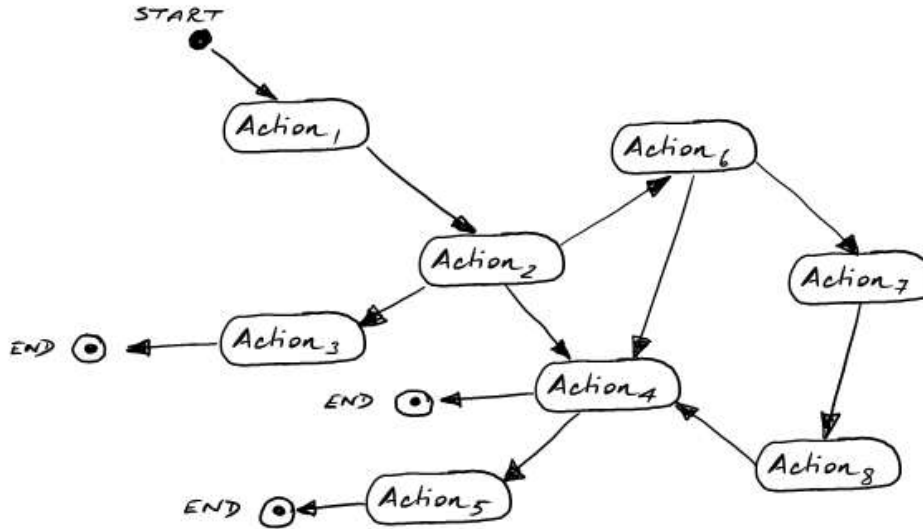


1

2 3.2.3 Activity, Action, Communication and Joint Action

3 In general terms, entities act in order to achieve their goals. More precisely, they generate Activity. An
4 Activity is made up of specific Actions or other Activities and is formally defined in [ISO/IEC 10746] as “a
5 single-headed directed acyclic graph of actions...”. It is most clearly understood diagrammatically:

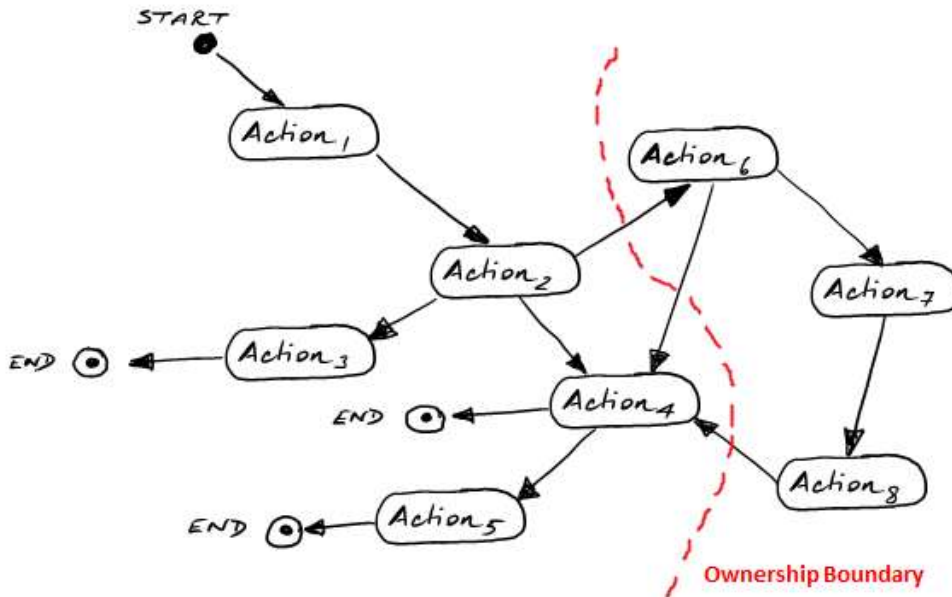


6

7 *Figure 1: An Activity, expressed informally as a graph of Actions, with a single Start point and alternative End points*

8 In UML, both Actions and Activities are modeled using the same rounded rectangle symbol. What
9 constitutes an Action or an Activity will be a matter of context. For the RAF, an Action represents the
10 smallest and most discrete activity that needs to be modeled for a given Viewpoint.

11 The form of Activity that is of most interest within a SOA ecosystem is that involving [Actions](#) as defined in
12 the next section and their interaction across ownership boundaries:



13

14 *Figure 2: Activity involving Actions across an ownership boundary*

15 When an Activity involves a series of Actions across one or more ownership boundaries (and thus
16 involves interaction between more than one [actor](#)) – we call this **joint action**.