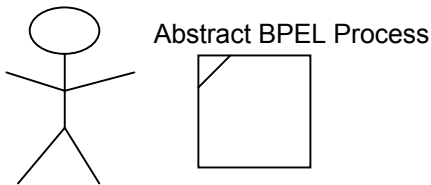
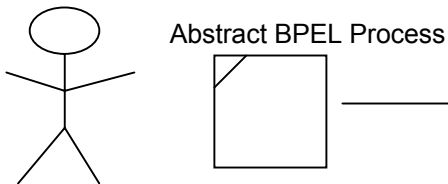


Abstract Process Example: Automated Negotiation

Seller (BPEL4WS + J2EE Shop)



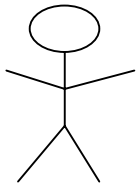
- (1) **Seller writes abstract BPEL process that embodies trading rules:**
- (2) Buyer sends offer.
- (3) Seller replies with acceptance, counter-offer, or "no deal."
- (4) Buyer replies with acceptance, counter-offer, or "no deal."
- (5) If after three rounds with no acceptance, then it is "no deal."
If there is an acceptance, then buyer sends order based on acceptance.



SELLER'S UDDI REPOSITORY

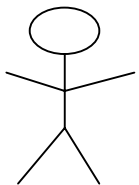
(2) Seller publishes abstract BPEL process in a public place

Buyer One (BPEL4WS + J2EE)



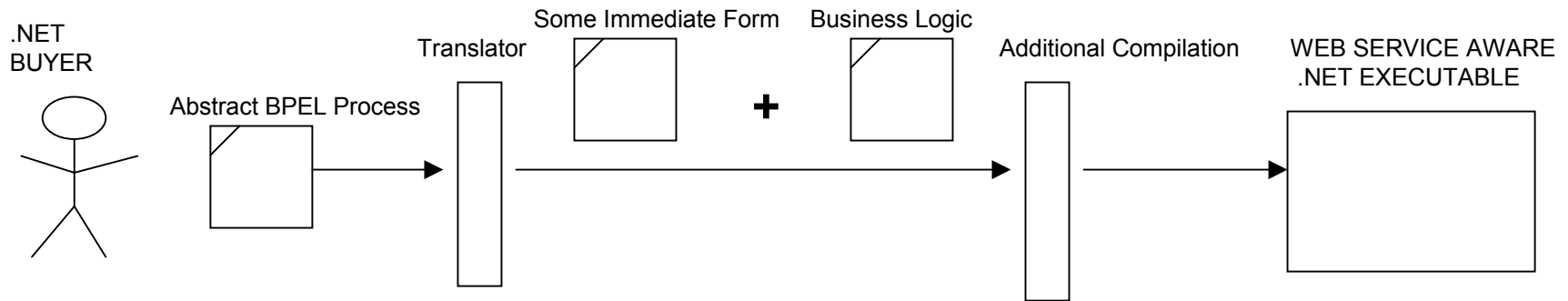
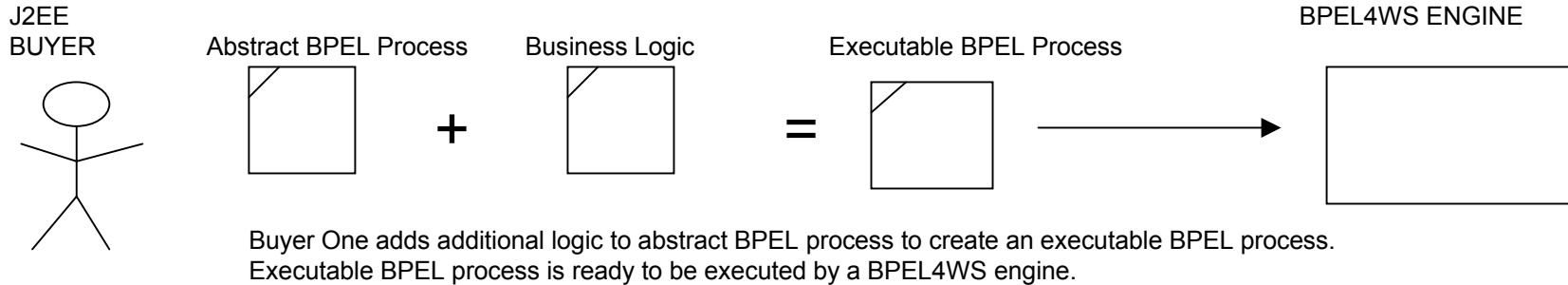
SELLER'S UDDI REPOSITORY

(3) Third party buyers read abstract BPEL process



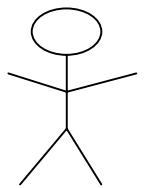
Buyer Two (.NET)

Abstract Process Example Continued : Automated Negotiation



Abstract Process Example Continued : Automated Negotiation

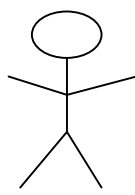
.NET BUYER



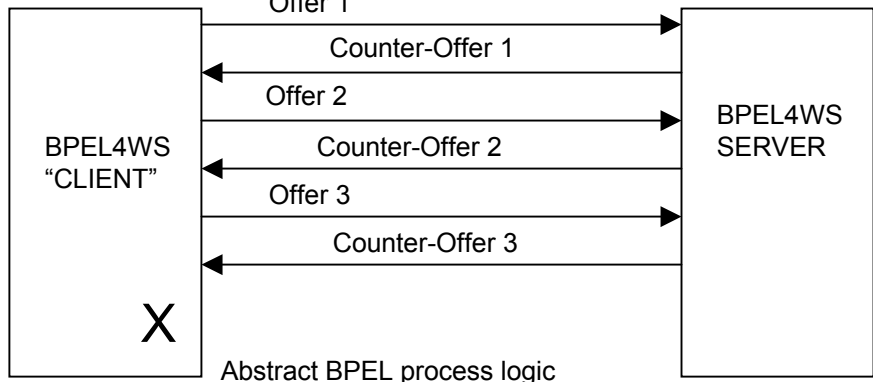
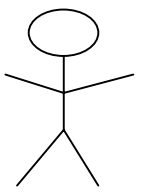
The buyers are now ready to interact with the seller.

Note: it does not matter what language the client was written in, as long as the implementation adheres to the rules laid out in the abstract process.

SELLER



BPEL+J2EE BUYER



Abstract BPEL process logic dictates that conversation should end after three unsuccessful rounds

Note: An external observer cannot tell how Buyer One's and Buyer Two's executable were implemented: they are effectively black boxes. WSDL/Partner links define interfaces (explained later).

Note: An external observer will notice that the message exchanges are similar but not the same. The changing internal state of the client and server can alter the message exchange sequence (i.e., seller ran out of stock and need to re-order item at a higher cost.....)