

Find a set of agents to which the proposal can be posted ($S_5 - S_6$);

Negotiation Phase

Stage Seven

5 (will depend on co-ordination strategy to be applied, for instance "Multiple Round Second Price Open Bid" or "Contract Net" - see below.)

- send the proposal ($S_6 - S_7$);
- perform *acceptance* handling ($S_7 - S_6$);
- (perform *counter-proposal* handling) ($S_6 - S_7$);
- 10 • (perform modified-proposal processing) ($S_7 - S_6$);

Stage Eight

Summarise results obtained from negotiation phase ($S_7 - S_8$);

Stage Nine

15 Decision: select a set of acceptances from the result ($S_8 - S_9$);

Stage Ten

Decision:

- if there are other sets of tasks whose required resources cannot be met
go to Stage Three ($S_9 - S_3$);
- 20 • if there are no other sets of tasks whose required resources cannot be met, and the agent is a head agent
go to Stage Thirteen ($S_9 - S_{12}$);
- if there are no other sets of tasks whose required resources cannot be met, and the agent is not a head agent
25 go to next stage ($S_9 - S_{10}$);

Stage Eleven

- send acceptance and replies ($S_{10} - S_{11}$);
- perform confirmation handling ($S_2 - S_{10}$);
- if applicable, perform modified-proposal handling ($S_{11} - S_{10}$);

Stage Twelve

Decision:

- if not having delegated and confirmation received
go to Stage Fourteen ($S_{11} - S_{13}$);
- if having delegated and confirmation received