

Decision:

- if resources are completely/partially sufficient
go to next stage;
- if resources are completely not available
5 reject and terminate;

Stage Two

Tentatively reserve resources;

Delegation Phase

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This phase will only come into play if agent A2 does not have the resource available, itself, to respond to agent A1.

Stage Three

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Determine the agent's position/role in the whole coordination context (head –owner of the current goal, or non-head – i.e. one to whom a sub-goal has been delegated) and distinguish the level of resource availability (partially/completely sufficient).

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- if resources are only partially sufficient
go to next stage ($S_2 - S_3$);
- if the resources are only partially sufficient, it is necessary to negotiate with other agents to find additional resource. Stages S_3 to S_9 bring in negotiation process steps which are not required if resources are completely sufficient. Hence, if resources are completely sufficient and
25 the agent's role is "head"
go to Stage Thirteen ($S_2 - S_{13}$);
- resources are completely sufficient but the agent's role is not "head",
go to Stage Ten ($S_2 - S_{10}$);

Stage Four

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Find the first set of tasks whose required resources cannot be met;
Remove the selected set ($S_3 - S_4$);

Stage Five

Create a new *proposal* using every task in the selected set ($S_4 - S_5$);

Stage Six