Abstract

This paper presents the Member Behavioral Model [MBM] and Task Execution Cycle [TEC] for a member in a work group, typically SHG. The present idea of modeling the behavior of the
member of the SHG greatly enhances the development of a holistic approach for the automation of SHG management. Every SHG [or any work group] has members. The behavior of such a member has not been modeled before. This paper attempts to model the member’s behavior. The MBM is based on the functionality of members such that each member, after receiving a task, checks for its feasibility; and if finds it feasible, starts execution of the task. But if the task is infeasible, then assigns (forwards) the task to another member. When the task is assigned to others, the task goes into a sleep state at the assigner and after completion of the task, wakes up from sleep, and completes any remnant work, and reports to the supervisor. The MBM is modeled to accommodate additional features such as to allow the member for transparent and collaborative functionality. The modules and their functionalities are clearly defined in this paper. Implementation outline is also provided and various communication protocols are defined. This paper also defines & proposes a method for computing the performance index of a member.

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**Index Terms**

Computer Science

Information Systems

**Key words**

member behavior model  
task execution cycle  
SHG formalization  
framework for member