



Date: 15 September 1999
To: T10 Technical Committee
From: Ralph Weber, LSI Logic Alternate Member of T10
Subj: SAM-2 Tasks and Work

During the July General SCSI Working Group meeting I reviewed a proposal that included changes to the Task object model definition to clarify that work to be done by the logical unit is a component of the Task definition. I was asked to modify that to an 'identification of the work to be done by the logical unit', since the work itself is what the logical unit does. The result is this proposal.

The September General SCSI Working Group meeting reviewed the proposal and recommended the changes shown by double underline below.

The problem concerns the definition of a Task. The glossary definition of a Task (3.1.96) is, "An object within the logical unit representing the work associated with a command or group of linked commands." Yet the architecture model description of a Task (4.9) says nothing about work to be done by the logical unit being a constituent of a Task. This seems like a serious oversight and it should be corrected by modifying the first few sentences in 4.9 as follows:

Old text:

The Task object represents either a Tagged Task or an Untagged Task without regard for the tagged or untagged nature of the Task. A Tagged Task is composed of a Tagged Task Identifier (see 4.9.2) and a Task Attribute (see 7.6). An Untagged Task is composed of a Untagged Task Identifier (see 4.9.2) and implicitly a SIMPLE task attribute (see 7.6). For convenience, Task Identifier (see 4.9.2) refers to either a Tagged Task Identifier or an Untagged Task Identifier without regard for the tagged or untagged nature of the task.

New text:

The Task object represents either a Tagged Task or an Untagged Task ~~without regard for the tagged or untagged nature of the Task.~~ The composition of a Task includes a definition of the work to be performed by the logical unit in the form of a command or a group of linked commands. A Tagged Task is composed of a definition of the work to be performed by the logical unit, a Tagged Task Identifier (see 4.9.2) and a Task Attribute (see 7.6). An Untagged Task is composed of a definition of the work to be performed by the logical unit, a Untagged Task Identifier (see 4.9.2) and implicitly a SIMPLE task attribute (see 7.6). For convenience, Task Identifier (see 4.9.2) refers to either a Tagged Task Identifier or an Untagged Task Identifier ~~without regard for the tagged or untagged nature of the task.~~

New text without strikeouts:

The Task object represents either a Tagged Task or an Untagged Task. The composition of a Task includes a definition of the work to be performed by the logical unit in the form of a command or a group of linked commands. A Tagged Task is composed of a definition of the work to be performed by the logical unit, a Tagged Task Identifier (see 4.9.2) and a Task Attribute (see 7.6). An Untagged Task is composed of a definition of the work to be performed by the logical unit, a Untagged Task Identifier (see 4.9.2) and implicitly a SIMPLE task attribute (see 7.6). For convenience, Task Identifier (see 4.9.2) refers to either a Tagged Task Identifier or an Untagged Task Identifier.