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FROM: Peter Johansson
TO: T10 SBP-2 *ad hoc* Working Group
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RE: SBP-2 Management ORB Time-outs

At the last meeting in San Jose, consensus emerged to redefine *login_timeout* in configuration ROM as the time-out value for all ORB's signaled to a target's MANAGEMENT_AGENT register. The new language below is proposed for submission the T10 plenary for stabilization.

7.5.8 Logical_Unit_Characteristics entry

The Logical_Unit_Characteristics entry is an immediate entry that, when present in the unit directory, specifies characteristics of the target implementation. Figure 52 shows the format of this entry.

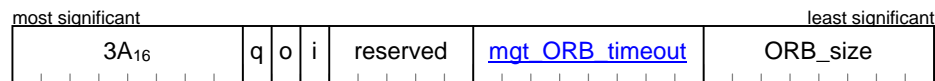


Figure 52 – Logical_Unit_Characteristics entry format

3A₁₆ is the concatenation of *key_type* and *key_value* for the Logical_Unit_Characteristics entry.

The *q* bit shall specify the task management (queuing) model implemented by the target. If *q* is zero, the target implements the basic task management model defined by this standard in 10.2. When *q* is one, the task management model is dependent upon the command set specified by the Command_Set_Spec_ID and Command_Set entries.

The *ordered* bit (abbreviated as *o* in the figure above) specifies the manner in which the target executes tasks signaled to the normal command block agent. If the target executes and reports completion status without any ordering constraints, the *ordered* bit shall be zero. Otherwise, if the target both executes all tasks in order and reports their completion status in the same order, the *ordered* bit shall be one.

The *isochronous* bit (abbreviated as *i* in the figure above) specifies whether or not the target supports isochronous operations. When *isochronous* is one, create stream requests and stream command block requests shall be supported; [stream control requests may be supported](#). If the *isochronous* bit is one, the *imc*, *cmc* and *isc* bits in the bus information block shall also be one, as described in 7.1.

The [mgt_ORB_timeout](#)~~*login_timeout*~~ field shall specify, in units of 500 milliseconds, the maximum time an initiator shall allow for a target to store a status block in response to [a management ORB](#)~~the initiator's login request~~. [The time-out commences when the initiator receives either ack_complete or resp_complete from the target in response to the block write of the management ORB address to the MANAGEMENT_AGENT register.](#)