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.

```
<table>
<thead>
<tr>
<th>most significant</th>
<th>3A</th>
<th>q</th>
<th>o</th>
<th>i</th>
<th>reserved</th>
<th>mgt_ORB_timeout</th>
<th>ORB_size</th>
</tr>
</thead>
<tbody>
<tr>
<td>least significant</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

Figure 52 – Logical_Unit_Characteristics entry format

3A<sub>16</sub> 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 irmc, cmc and isc bits in the bus information block shall also be one, as described in 7.1.

The mgt_ORB_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.