**Summary of Changes**

- Added Annex B, Document Editing History
- Editing changes from May 1993 working group.
- Proposed technical changes.

**SAM Status**

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**Proposed technical changes**

- Strict sequentiaity required for initiator requests and target responses.
  - Previous requirement (Section 5.6.1):  
    "Each SCSI protocol standard shall define some means for an initiator to control the exact order in which its requests will be delivered to the logical unit."
  - Modified requirement (Section 5.6):  
    "An implementation shall guarantee that for a given pair of source and destination devices, all service delivery transactions are received in the order in which they were sent".
  - Necessary to insure that:  
    - Initiator-specified task ordering is preserved.
    - Abort functions work correctly.

**Ordering Example**

![Ordering Example Diagram]

Questions:

- When is it safe for the initiator to reuse the tag for command A?
- How can the initiator guarantee that command A is aborted?
Technical Changes (Con't)

- Only one pending task management function allowed.
  - Previous requirement (section 5.7.3.1):
    - "An implementation may allow an initiator to have more than one pending task management request per logical unit".
  - Modified requirement (section 5.7.3.1)
    - "An implementation shall not allow an initiator to have more than one pending task management request per logical unit"
- Rationale:
  - If a task management request fails, there is no way for the initiator to intervene by aborting or canceling other pending functions prior to execution.

Technical Changes (con't)

- Added "Command Complete" and "Function Complete" as protocol-specific target responses.
  - Protocols must specify the conditions or sequence of events comprising these responses.
  - "Command Complete" - Returned by the target to notify the initiator that an SCSI command has finished.
  - "Function Complete" - Returned by the target to notify the initiator that an SCSI task management function has completed.
- Rationale:
  - Need to map Command Complete and Function Complete conditions to protocol-specific events.

Technical Changes (cont)

- Clause 6.6.6 - Added requirement for all protocols to define a mechanism for AEN delivery.
  - Rationale:
    - AEN is useless unless supported by all protocols.
    - Without support by all protocols, porting a device implementation that uses AEN to another protocol may be difficult if not impossible.
- Clause 7.5 - Delegated requirement for duplicate tag checking to protocol specification
  - Rationale:
    - Large tag address space supported by some protocols makes duplicate tag checking impractical.