

Proposal for a new work item on

Title: Information technology --- SCSI, Serial Attached SCSI (SAS)

PROPOSAL FOR A NEW WORK ITEM

Date of presentation of proposal: 2002-11-10	Proposer: SC25
Secretariat: Germany(DIN)	ISO/IEC JTC 1 / SC 25 N

A **proposal for a new work item** shall be submitted to the secretariat of the Subcommittee of ISO/IEC joint technical committee 1 concerned with a copy to the secretariat of ISO/IEC JTC1 and to the ISO Central Secretariat. **Presentation of the proposal** - to be completed by the proposer Guidelines for proposing and justifying a new work item are given in ISO Guide 26.

Title ISO/IEC: INFORMATION TECHNOLOGY - SCSI, Serial Attached SCSI (SAS)
Scope: The Serial Attached SCSI is a new physical transport for SCSI intended to focus on new configurations that traditionally use the parallel SCSI transport. It will use serial point-to-point links. Expanders may be used to fan out to multiple devices. A goal of this project is to facilitate the development of systems that can include either Serial Attached SCSI devices or Serial ATA devices. Serial Attached SCSI will: <ol style="list-style-type: none">1) define the physical interconnect to support multiple transfer rates (e.g., 1.5 Gbit/sec, 3.0 Gbit/sec);2) define the layers to support attaching Serial ATA devices to multi-mode Serial Attached SCSI / Serial ATA systems;3) define key expander interoperability features (address assignment, contention resolution, etc.);4) define a SAM-compliant protocol layer to support multiple SCSI initiators and multiple SCSI targets;5) define other capabilities that may fit within the general application scope of this project.
Purpose and justification: Current enterprise class storage devices typically use either the parallel SCSI interface (SPI-n) for configurations of up to 15 devices or Fibre Channel for much larger configurations. As the signaling rates increase, the electrical limitations of the parallel SCSI multi-drop bus are becoming more problematic. A low-cost serial point-to-point topology with inexpensive expander devices is necessary to support the market currently addressed by parallel SCSI.
Programme of work: If the proposed new work item is approved, which of the following document(s) is (are) expected to be developed? <u> X </u> a single International Standard more than one International Standard
Relevant documents to be considered: Small Computer System SCSI, Serial Attached SCSI (SAS), available now.
Cooperation and liaison: None.

Preparatory work offered with target date(s): Small Computer System Interface (SCSI) Serial Attached SCSI (SAS), available now.
Signature:
Will the service of a maintenance agency or registration authority be required?No..... Are there any known requirements for coding?No..... Does the proposed standard concern known patented items? ... No.
Comments with respect to the proposal in general, and recommendations thereon: It is proposed to assign this new item to JTC 1/SC 25 as project 1.25.13.13.nm .

Voting on the proposal - Each P-member of the ISO/IEC JTC 1/SC 25 has an obligation to vote within the time limits laid down.

Date of circulation:	Closing date for voting:	Signature
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NEW WORK ITEM PROPOSAL - PROJECT ACCEPTANCE CRITERIA		
Criterion	Validity	Explanation
A Business Requirement		
A.1 Market Requirement	Essential <input checked="" type="checkbox"/> Desirable <input type="checkbox"/> Supportive <input type="checkbox"/>	The SCSI interface is widely available on PC, server, and multimedia devices.
A.2 Regulatory Context	Essential <input type="checkbox"/> Desirable <input checked="" type="checkbox"/> Supportive <input type="checkbox"/> Not Relevant <input type="checkbox"/>	
B. Related Work		
B.1 Completion/Maintenance of current standards	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
B.2 Commitment to other organization	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

B.3 Other Source of standards	Yes ___ No <u>X</u>	
C. Technical Status		
C.1 Mature Technology	Yes <u>X</u> No ___	The technology for SCSI is mature.
C.2 Prospective Technology	Yes ___ No <u>X</u>	The standard is needed now.
C.3 Models/Tools	Yes ___ No <u>X</u>	
D. Conformity Assessment and Interoperability		
D.1 Conformity Assessment	Yes ___ No <u>X</u>	
D.2 Interoperability	Yes <u>X</u> No ___	If standard approved as this is the prime objective.
E. Other Justification		

Notes to Proforma

A. Business Relevance. That which identifies market place relevance in terms of what problem is being solved and or need being addressed.

A.1. Market Requirement. When submitting a NP, the proposer shall identify the nature of the Market Requirement, assessing the extent to which it is essential, desirable or merely supportive of some other project.

A.2 Technical Regulation. If a Regulatory requirement is deemed to exist- e.g. for an area of public concern e.g. Information Security, Data protection, potentially leading to regulatory/public interest action based on the use of this voluntary international standard - the proposer shall identify this here.

B. Related Work. Aspects of the relationship of this NP to other areas of standardization work shall be identified in this section.

B.1 Competition/Maintenance. If this NP is concerned with completing or maintaining existing standards, those concerned shall be identified here.

B.2 External Commitment. Groups, bodies, or for an external to JTC1 to which a commitment has been made by JTC for cooperation and or collaboration on this NP shall be identified here.

B.3 External Std/Specification. If other activities creating standards or specifications in this topic area are known to exist or be planned, and which might be available to JTC1 as PAS, they shall be identified here.

C. Technical Status. The proposer shall indicate here an assessment of the extent to which the proposed standard is supported by current technology.

C.1 Mature Technology. Indicate here the extent to which the technology is reasonably stable and ripe for standardization.

C.2 Prospective Technology. If the NP is anticipatory in nature based on expected or forecasted need, this shall be indicated here.

C.3 Models/Tools. If the NP relates to the creation of supportive reference models or tools, this shall be indicated here.

D. Any other aspects of background information justifying this NP shall be indicated here.

D. Conformity Assessment and Interoperability

D.1 Indicate here if Conformity Assessment is relevant to your project. If so, indicate how it is addressed in your project plan.

D.2 Indicate here if Interoperability is relevant to your project. If so, indicate how it is addressed in your project plan.