Project Proposal
for a new
INCITS Standard

Automation/Drive Interface Transport Protocol - 3
(ADT-3)

1 Source of Proposed Project

1.1 Title: Automation/Drive Interface Transport Protocol – 3 (ADT-3)

1.2 Date Submitted: 9 January 2008.

1.3 Proposing Group: INCITS TC T10. Seven T10 members are also INCITS members.

2 Process Description for the Proposed Project

2.1 Project Type: D - Development.

2.2 Type of Document: Standard.

2.3 Definitions of Concepts and Special Terms: none.

2.4 Expected Relationship with Approved Reference Models, Frameworks, Architectures, etc.

None, it is expected that this standard will be used in closed systems.

2.5 Recommended INCITS Development Technical Committee: T10.
2.6 Anticipated Frequency and Duration of Meetings
Technical Committee T10 meets on a regularly scheduled basis (see http://www.t10.org for the current meeting schedule). Specific task ad hoc groups are called as required between the regular meetings but their results are not binding.

2.7 Target Date for Initial Public Review (Milestone 4): January 2010.

2.8 Estimated Useful Life of Standard or Technical Report: 5 Years.

3 Business Case for Developing the Proposed Standard or Technical Report

3.1 Description

The following items should be considered for inclusion in ADT-3:

1) SAM-4 and SPC-4 compliance, including the addition of log subpages;
2) Transport of ADT frames over TCP/IP protocols (iADT);
3) Addition of new task management requests;
4) Raising the Max ACK Offset during negotiation as the baud rate is lowered; and
5) Other capabilities that may fit within the scope of this project.

3.2 Existing Practice and the Need for a Standard
The proposed project involves a compatible evolution of the present ADT-2.

3.3 Implementation Impacts of the Proposed Standard

3.3.1 Development Costs
Members of T10 will provide the necessary resources. The T10 members will host the required meetings for development, provide for the necessary lab experiments, and provide the Technical Editor for the project.

3.3.2 Impact on Existing or Potential Markets
This proposed project is intended to provide a more consistent interface between automation devices and removable medium devices. This ensures that investments in such solutions have a stable managed migration path in the face of technological development.
3.3.3 Costs and Methods for Conformity Assessment
The committee will consider the results of testing as may be available to the committee through the voluntary
efforts of the various participants in T10. With this method all costs are borne by the organizations of the various
participants and have for the most part been mainly an adjunct of their normal development costs.

3.3.4 Return on Investment
ROI information is considered proprietary data by the member organizations, but members have stated that the
ROI is expected to be large.

3.4 Legal Considerations

3.4.1 Patent Assertions
Calls will be made to identify assertions of patent rights in accordance with the relevant INCITS, ANSI, and ISO/
IEC policies and procedures.

3.4.2 Dissemination of the Standard or Technical Report
Drafts of this document will be disseminated electronically. Dissemination of the final standard will be restricted,
as the document becomes property of INCITS, ANSI, and/or ISO/IEC.

4 Related Standards Activities

4.1 Existing Standards:

<table>
<thead>
<tr>
<th>ID Number</th>
<th>Title</th>
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<tbody>
<tr>
<td>ISO/IEC 14776</td>
<td>Multipart SCSI standard</td>
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<tr>
<td>INCITS 416-2006</td>
<td>Fibre Channel Protocol – 3 (FCP-3)</td>
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<tr>
<td>INCITS 366-2003</td>
<td>SCSI Architecture Model - 2 (SAM-2)</td>
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<td>INCITS 402-2005</td>
<td>SCSI Architecture Model - 3 (SAM-3)</td>
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<tr>
<td>INCITS 376-2003</td>
<td>Serial Attached SCSI (SAS)</td>
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<tr>
<td>INCITS 417-2006</td>
<td>Serial Attached SCSI - 1.1 (SAS-1.1)</td>
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<tr>
<td>INCITS 351-2001</td>
<td>SCSI Primary Commands - 2 (SPC-2)</td>
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<tr>
<td>INCITS 408-2005</td>
<td>SCSI Primary Commands - 3 (SPC-3)</td>
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4.2 Related Standards Activity

<table>
<thead>
<tr>
<th>ID Number</th>
<th>Title</th>
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<tbody>
<tr>
<td>T10/1741-D</td>
<td>Automation/Drive Interface Commands – 2 (ADC-2)</td>
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<tr>
<td>T10/1742-D</td>
<td>Automation/Drive Interface Transport Protocol -2 (ADT-2)</td>
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<tr>
<td>T10/1828-D</td>
<td>Fibre Channel Protocol – 4 (FCP-4)</td>
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<td>T10/1683-D</td>
<td>SCSI Architecture Model - 4 (SAM-4)</td>
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<tr>
<td>T10/1760-D</td>
<td>Serial Attached SCSI – 2 (SAS-2)</td>
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<tr>
<td>T10/1729-D</td>
<td>SCSI Primary Commands - 4 (SPC-4)</td>
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4.3 Recommendations for Close Liaison
None.

5 Units of Measurement used in the Standard
The International System of Units (SI) units will be used.