BS ISO/IEC 24775-8:2021

BSI Standards Publication

Information technology — Storage management

Part 8: Media libraries

Documents
Document Sharing Hub

Full document details: BS ISO/IEC 24775-8:2021

National foreword

This British Standard is the UK implementation of ISO/IEC 24775-8:2021. It supersedes BS ISO/IEC 24775-8:2014, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee ICT/1, Information systems co-ordination.

A list of organizations represented on this committee can be obtained on request to its committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2021
Published by BSI Standards Limited 2021

ISBN 978 0 539 13979 2

ICS 35.200

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 April 2021.

Amendments/corrigenda issued since publication

Date	Text affected

Documents
Document Sharing Hub

Full document details: BS ISO/IEC 24775-8:2021

INTERNATIONAL STANDARD

ISO/IEC 24775-8

Second edition
2021-03

Information technology — Storage management —

Part 8: Media libraries

Reference number
ISO/IEC 24775-8:2021(E)

Documents
Document Sharing Hub
© ISO/IEC 2021

Full document details: BS ISO/IEC 24775-8:2021

COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

© ISO/IEC 2021 – All rights reserved

Documents
Document Sharing Hub

Full document details: BS ISO/IEC 24775-8:2021

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents) or the IEC list of patent declarations received (see http://patents.iec.ch).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by SNIA (as Storage Management Technical Specification, Part 7 Host Elements, Version 1.8.0, Revision 5) and drafted in accordance with its editorial rules. It was adopted, under the JTC 1 PAS procedure, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

This second edition cancels and replaces the first edition (ISO/IEC 24775-7:2014), which has been technically revised.

The main changes compared to the previous edition are as follows:

— USAGE text was revised to address code (now included in the front matter for all SNIA specifications)

— All recipes and their references were deleted.

— Instances of subprofile were changed to profile. In the annex, instances of subprofile were changed to component profile (TSG meeting voice vote).

— Profile versions and related text were updated. (TSG meeting voice vote).

— Indications have been replaced by DMTF Indications, and all affected clauses updated. (TSG meeting voice vote).

— Instances of Experimental within profiles already labeled as Experimental were removed to avoid confusion and redundancy. (Editorial change)

— CIM/XML was changed to CIM-XML (Response to ballot comments).

Documents
Document Sharing Hub

© ISO/IEC 2021 – All rights reserved

Full document details: BS ISO/IEC 24775-8:2021

— Annex: SMI-S Information Model.

— The CIM schema version was changed to 2.51 for V1.8.0 Rev3.

— Disk Partition Profile

  — Added descriptions of the references in CIM_BasedOn (Partition to Extent), CIM_BasedOn (Partition to Partition), CIM_LogicalDiskBasedOnPartition (LogicalDisk to Partition) and CIM_SystemDevice (System to LogicalDisk).
  — Made CIM_LogicalDiskBasedOnPartition (LogicalDisk to Partition) and CIM_SystemDevice (System to LogicalDisk) Conditional (rather than Optional), since CIM_LogicalDisk is Optional.
  Storage HBA Profile (SMI TWG Reviews).
  — Fixed the version numbers on the Related Profiles to match what the profiles claim.
  — Added Descriptions to the references in CIM_ProductElementComponent, CIM_Realizes and CIM_SystemDevice.

— FC HBA Profile

  — Removed the profile content and added text re it being Deprecated. (CORE-SMIS-SCR-000).

— Host Discovered Resources Profile

  — Promoted the maturity level from DRAFT to EXPERIMENTAL for update to remove SNIA_ classes and use DMTF CIM_ classes.
  — Added the related profiles table to the spec.
  — Moved NameFormat from LogicalDevice to LogicalDisk to match the mof.
  — Moved NameNamespace from LogicalDevice to LogicalDisk to match the mof.
  — Added descriptions on the References for CIM_HostedAccessPoint and CIM_SystemDevice.
  — Marked the SB Multipath Management Related Profile as Deprecated (SMIS-180-Errata-SCR00002).

— Host Hardware RAID Controller Profile

  — Fixed the version numbers on the Related Profiles to match what the profiles claim.
  — Added two ElementSoftwareIdentity associations to cover the 3 SoftwareIdentity classes (one Mandatory and one Optional).
  — Added descriptions on the References for CIM_AssociatedAlarm, CIM_ProductPhysicalComponent, CIM_ProtocolControllerForUnit (Extent or MediaAccessDevice), CIM_Realizes (Associates PhysicalPackage to PortController) and CIM_SAPAvailableForElement.
  — Fixed the description of Dependent in CIM_ControlledBy.
  — Added Key properties to the CIM_SoftwareIdentity CIM Element tables.
  — Changed the version of the profile to 1.7.0.

— iSCSI Initiator

  — Removed all occurrences of “(Host Hardware RAID Controller)” (CORE-SMIS-SCR-000).
  — Removed MATURITY="Draft" from the Launch In Context supported profile.
  — Added Descriptions for References in 2 CIM_BindsTo associations, CIM_ControlledBy, 2 CIM_DeviceSAPImplementations and CIM_ElementSoftwareIdentity.
  — Added Descriptions for References in 2 CIM_EndpointOfNetworkPipes, CIM_NetworkPipeComposition, CIM_ProductPhysicalComponent and CIM_Realizes.

Documents
Document Sharing Hub

© ISO/IEC 2021 – All rights reserved

Full document details: BS ISO/IEC 24775-8:2021

— Added Descriptions for references in CIM_SAPAvailableForElement.
— Added Keys to CIM_PhysicalPackage.
— Changed the Central Class from PortController to CIM_ComputerSystem (TSG-SMIS-SCR00333).

— Memory Configuration Profile

— Updated due to class and property name changes in DMTF Multi-type Memory profile (SMIS-170-Draft-SCR00006).
— Introduced staged request concept.
— Added use cases.
— Addressed comments from internal and partner reviews.
— Changed diagrams approved in Core TWG 3/23/15.
— Changed SystemCreateClassName in class CIM_MemoryConfigurationService to SystemCreationClassName.
— Changed RemainingCapacity in class CIM_ResourcePool to CurrentlyConsumedResource.
— Changed ChangeableType in class CIM_MemoryAllocationSettingData to ResourceType.
— Fixed the description of Replication in class CIM_MemoryAllocationSettingData.
— Added a description for ChannelCount in class CIM_MemoryAllocationSettingData.

— Persistent Memory Configuration Profile

— Added new material (most of profile content) to manage NVDIMMs (SMIS-170-Draft-SCR00006).
— Changed diagrams approved in Core TWG 3/23/15- Changed RemainingCapacity in class CIM_ResourcePool to Reserved.
— Changed SecurityFeatues in class CIM_PersistentMemoryCapabilities to SecurityFeatures.
— Removed ChannelCount in class CIM_PersistentMemoryNamespaceSettingData, since it is not in the mof and not referenced anywhere in the profile text.
— Added three methods to CIM_PersistentMemoryService to support the profile text.
— Fixed the ManagedElement reference in CIM_ElementConformsToProfile.
— Fixed the references in CIM_SystemDevice.
— Fixed the references in CIM_BasedOn.

— SB Multipath Management Profile

— Promoted the maturity level from DRAFT to EXPERIMENTAL for update to remove SNIA_ classes and use DMTF CIM_ classes (TSG-SMIS-SCR00315.001).
— Added reference to SMI-S Version 1.6.1 Revision 5. No content in this deprecated profile SB Multipath.

— SCSI Multipath Management Profile

— Added keys to CIM_SCSIMultipathConfigurationCapabilities and CIM_SCSIMultipathSettings (SMIS-170-Draft-SCR00006).

— Annex A (informative) SMI-S Information Model

— DMTF's CIM schema version changed to 2.45.0.

— References

© ISO/IEC 2021 – All rights reserved

Documents
Document Sharing Hub
Full document details: BS ISO/IEC 24775-8:2021

— Added DMTF DSP1054 v1.2.2, Indications Profile (and changed version to 1.2.2 throughout book).
— Updated DSP 1071, Multi-type System Memory Profile reference here and in profiles.
— Added reference to DSP 1119, 1.0.0b Diagnostics Job Control Profile.
— Removed reference to DSP 1119\.
— Removed 2.3.

A list of all parts in the ISO/IEC 24775 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

© ISO/IEC 2021 – All rights reserved
Documents
Document Sharing Hub
Full document details: BS ISO/IEC 24775-8:2021

INTENDED AUDIENCE

This document is intended for use by individuals and companies engaged in developing, deploying, and promoting interoperable multi-vendor SANs through the Storage Networking Industry Association (SNIA) organization.

CHANGES TO THE SPECIFICATION

Each publication of this specification is uniquely identified by a three-level identifier, comprised of a version number, a release number and an update number. The current identifier for this specification is version 1.8.0. Future publications of this specification are subject to specific constraints on the scope of change that is permissible from one publication to the next and the degree of interoperability and backward compatibility that should be assumed between products designed to different publications of this standard. The SNIA has defined three levels of change to a specification:

- Major Revision: A major revision of the specification represents a substantial change to the underlying scope or architecture of the SMI-S API. A major revision results in an increase in the version number of the version identifier (e.g., from version 1.x.x to version 2.x.x). There is no assurance of interoperability or backward compatibility between releases with different version numbers.
- Minor Revision: A minor revision of the specification represents a technical change to existing content or an adjustment to the scope of the SMI-S API. A minor revision results in an increase in the release number of the specification's identifier (e.g., from x.1.x to x.2.x). Minor revisions with the same version number preserve interoperability and backward compatibility.
- Update: An update to the specification is limited to minor corrections or clarifications of existing specification content. An update will result in an increase in the third component of the release identifier (e.g., from x.x.1 to x.x.2). Updates with the same version and minor release levels preserve interoperability and backward compatibility.

TYPOGRAPHICAL CONVENTIONS

Maturity Level

In addition to informative and normative content, this specification includes guidance about the maturity of emerging material that has completed a rigorous design review but has limited implementation in commercial products. This material is clearly delineated as described in the following sections. The typographical convention is intended to provide a sense of the maturity of the affected material, without altering its normative content. By recognizing the relative maturity of different sections of the standard, an implementer should be able to make more informed decisions about the adoption and deployment of different portions of the standard in a commercial product.

This specification has been structured to convey both the formal requirements and assumptions of the SMI-S API and its emerging implementation and deployment lifecycle. Over time, the intent is that all content in the specification will represent a mature and stable design, be verified by extensive implementation experience, assure consistent support for backward compatibility, and rely solely on content material that has reached a similar level of maturity. Unless explicitly labeled with one of the subordinate maturity levels defined for this specification, content is assumed to satisfy these requirements and is referred to as "Finalized". Since much of the evolving specification

content in any given release will not have matured to that level, this specification defines three subordinate levels of implementation maturity that identify important aspects of the content's increasing maturity and stability. Each subordinate maturity level is defined by its level of implementation experience, its stability and its reliance on other emerging standards. Each subordinate maturity level is identified by a unique typographical tagging convention that clearly distinguishes content at one maturity model from content at another level.

© ISO/IEC 2021 – All rights reserved

Documents
Document Sharing Hub

Full document details: BS ISO/IEC 24775-8:2021

Experimental Maturity Level

No material is included in this document unless its initial architecture has been completed and reviewed. Some content included in this document has complete and reviewed design, but lacks implementation experience and the maturity gained through implementation experience. This content is included in order to gain wider review and to gain implementation experience. This material is referred to as "Experimental". It is presented here as an aid to implementers who are interested in likely future developments within the SMI specification. The contents of an Experimental profile may change as implementation experience is gained. There is a high likelihood that the changed content will be included in an upcoming revision of the specification. Experimental material can advance to a higher maturity level as soon as implementations are available. Figure 1 is a sample of the typographical convention for Experimental content.

EXPERIMENTAL

Experimental content appears here.

EXPERIMENTAL

Figure 1 - Experimental Maturity Level Tag

Implemented Maturity Level

Profiles for which initial implementations have been completed are classified as "Implemented". This indicates that at least two different vendors have implemented the profile, including at least one provider implementation. At this maturity level, the underlying architecture and modeling are stable, and changes in future revisions will be limited to the correction of deficiencies identified through additional implementation experience. Should the material become obsolete in the future, it must be deprecated in a minor revision of the specification prior to its removal from subsequent releases. Figure 2 is a sample of the typographical convention for Implemented content.

IMPLEMENTED

Implemented content appears here.

IMPLEMENTED

Figure 2 - Implemented Maturity Level Tag

Stable Maturity Level

Once content at the Implemented maturity level has garnered additional implementation experience, it can be tagged at the Stable maturity level. Material at this maturity level has been implemented by three different vendors, including both a provider and a client. Should material that has reached this maturity level become obsolete, it may only be deprecated as part of a minor revision to the specification. Material at this maturity level that has been deprecated may only be removed from the specification as part of a major revision. A profile that has reached this maturity level is guaranteed to preserve backward compatibility from one minor specification revision to the next. As a result, Profiles at or above the Stable

© ISO/IEC 2021 – All rights reserved

Documents
Document Sharing Hub

Full document details: BS ISO/IEC 24775-8:2021

maturity level shall not rely on any content that is Experimental. Figure 3 is a sample of the typographical convention for Implemented content.

STABLE

Stable content appears here.

STABLE

Figure 3 - Stable Maturity Level Tag

Finalized Maturity Level

Content that has reached the highest maturity level is referred to as “Finalized.” In addition to satisfying the requirements for the Stable maturity level, content at the Finalized maturity level must solely depend upon or refine material that has also reached the Finalized level. If specification content depends upon material that is not under the control of the SNIA, and therefore not subject to its maturity level definitions, then the external content is evaluated by the SNIA to assure that it has achieved a comparable level of completion, stability, and implementation experience. Should material that has reached this maturity level become obsolete, it may only be deprecated as part of a major revision to the specification. A profile that has reached this maturity level is guaranteed to preserve backward compatibility from one minor specification revision to the next. Over time, it is hoped that all specification content will attain this maturity level. Accordingly, there is no special typographical convention, as there is with the other, subordinate maturity levels. Unless content in the specification is marked with one of the typographical conventions defined for the subordinate maturity levels, it should be assumed to have reached the Finalized maturity level.

Deprecated Material

Non-Experimental material can be deprecated in a subsequent revision of the specification. Sections identified as “Deprecated” contain material that is obsolete and not recommended for use in new development efforts. Existing and new implementations may still use this material, but shall move to the newer approach as soon as possible. The maturity level of the material being deprecated determines how long it will continue to appear in the specification. Implemented content shall be retained at least until the next revision of the specialization, while Stable and Finalized material shall be retained until the next major revision of the specification. Providers shall implement the deprecated elements as long as it appears in the specification in order to achieve backward compatibility. Clients may rely on deprecated elements, but are encouraged to use non-deprecated alternatives when possible.

Deprecated sections are documented with a reference to the last published version to include the deprecated section as normative material and to the section in the current specification with the replacement. Figure 4 contains a sample of the typographical convention for deprecated content.

DEPRECATED

Content that has been deprecated appears here.

DEPRECATED

Figure 4 - Deprecated Tag

© ISO/IEC 2021 – All rights reserved

Documents
Document Sharing Hub

Full document details: BS ISO/IEC 24775-8:2021

© ISO/IEC 2021 – All rights reserved

Documents
Document Sharing Hub

Full document details: BS ISO/IEC 24775-8:2021

Contents

List of Figures 13
List of Tables 15
Foreword 17
1 Scope 19
2 Normative References 21
2.1 General 21
2.2 Approved references 21
2.3 References under development 21
3 Terms, Definitions, Symbols, Abbreviations, and Conventions 23
3.1 General 23
3.2 Terms and Definitions 23
4 Storage Library Profile 25
4.1 Synopsis 25
4.2 Description 25
4.3 Health and Fault Management Considerations 40
4.4 Methods of the Profile 40
4.5 Use Cases 40
4.6 CIM Elements 42
5 Storage Library Element Counting Profile 57
5.1 Synopsis 57
5.2 Description 57
5.3 Discovery 57
5.4 Health and Fault Management Considerations 57
5.5 Methods of the Profile 57
5.6 Use Cases 59
5.7 CIM Elements 61
6 Storage Library Capacity Profile 63
6.1 Synopsis 63
6.2 Description 63
6.3 Health and Fault Management Considerations 63
6.4 Methods of the Profile 63
6.5 Use Cases 64
6.6 CIM Elements 64
7 Storage Library Limited Access Port Elements Profile 67
7.1 Synopsis 67
7.2 Description 67
7.3 Instance Diagram 67
7.4 Health and Fault Management Considerations 68
7.5 Methods of the Profile 68
7.6 Use Cases 68
7.7 CIM Elements 68
Annex A (informative) SMI-S Information Model 73

© ISO/IEC 2021 – All rights reserved

Documents
Document Sharing Hub
Full document details: BS ISO/IEC 24775-8:2021

© ISO/IEC 2021 – All rights reserved

Documents
Document Sharing Hub

Full document details: BS ISO/IEC 24775-8:2021

LIST OF FIGURES

Figure 1 - Experimental Maturity Level Tag 8
Figure 2 - Implemented Maturity Level Tag 8
Figure 3 - Stable Maturity Level Tag 9
Figure 4 - Deprecated Tag 9
Figure 5 - Storage Library-centric Instance Diagram 27
Figure 6 - MediaAccessDevice-centric Instance Diagram 28
Figure 7 - ChangerDevice-centric Instance Diagram 28
Figure 8 - Physical View Instance Diagram 29
Figure 9 - StorageMediaLocation Instance Diagram 30
Figure 10 - Instance Diagram 57
Figure 11 - Storage Library Capacity Instance Diagram 63
Figure 12 - Tape Libraries with Magazines in LimitedAccessPorts 67
Figure 13 - Tape Libraries with no Magazines in LimitedAccessPorts 68

© ISO/IEC 2021 – All rights reserved

Documents
Document Sharing Hub
Full document details: BS ISO/IEC 24775-8:2021

© ISO/IEC 2021 – All rights reserved

Documents
Document Sharing Hub

Full document details: BS ISO/IEC 24775-8:2021

LIST OF TABLES

Table 1 - Supported Profiles for Storage Library 25
Table 2 - CIM Elements for Storage Library 42
Table 3 - SMI Referenced Properties/Methods for CIM_ChangerDevice 48
Table 4 - SMI Referenced Properties/Methods for CIM_Chassis 49
Table 5 - SMI Referenced Properties/Methods for CIM_ComputerSystem 50
Table 6 - SMI Referenced Properties/Methods for CIM_ComputerSystemPackage 50
Table 7 - SMI Referenced Properties/Methods for CIM_ElementCapabilities 50
Table 8 - SMI Referenced Properties/Methods for CIM_ElementSoftwareIdentity 51
Table 9 - SMI Referenced Properties/Methods for CIM_MediaAccessDevice 51
Table 10 - SMI Referenced Properties/Methods for CIM_PackagedComponent 52
Table 11 - SMI Referenced Properties/Methods for CIM_PhysicalMedia 52
Table 12 - SMI Referenced Properties/Methods for CIM_PhysicalMediaInLocation 52
Table 13 - SMI Referenced Properties/Methods for CIM_ProtocolControllerForUnit 53
Table 14 - SMI Referenced Properties/Methods for CIM_Realizes 53
Table 15 - SMI Referenced Properties/Methods for CIM_SCSIProtocolController 53
Table 16 - SMI Referenced Properties/Methods for CIM_SoftwareIdentity 54
Table 17 - SMI Referenced Properties/Methods for CIM_StorageLibraryCapabilities 55
Table 18 - SMI Referenced Properties/Methods for CIM_StorageMediaLocation 55
Table 19 - SMI Referenced Properties/Methods for CIM_SystemDevice (System to Changer Device) 56
Table 20 - SMI Referenced Properties/Methods for CIM_SystemDevice (System to MediaAccessDevice) 56
Table 21 - SMI Referenced Properties/Methods for CIM_SystemDevice (System to SCSIProtocolController) 56
Table 22 - CIM Elements for Storage Library Element Counting 61
Table 23 - SMI Referenced Properties/Methods for CIM_ConfigurationReportingService 61
Table 24 - SMI Referenced Properties/Methods for CIM_HostedService 62
Table 25 - CIM Elements for Storage Library Capacity 64
Table 26 - SMI Referenced Properties/Methods for CIM_ConfigurationCapacity 64
Table 27 - SMI Referenced Properties/Methods for CIM_ElementCapacity 65
Table 28 - CIM Elements for Storage Library Limited Access Port Elements 68
Table 29 - SMI Referenced Properties/Methods for CIM_Container 69
Table 30 - SMI Referenced Properties/Methods for CIM_LimitedAccessPort 70
Table 31 - SMI Referenced Properties/Methods for CIM_Magazine 70
Table 32 - SMI Referenced Properties/Methods for CIM_Realizes 71
Table 33 - SMI Referenced Properties/Methods for CIM_SystemDevice 71

© ISO/IEC 2021 – All rights reserved

Documents
Document Sharing Hub
Full document details: BS ISO/IEC 24775-8:2021

© ISO/IEC 2021 – All rights reserved

Documents
Document Sharing Hub

Full document details: BS ISO/IEC 24775-8:2021

FOREWORD

Storage Library Profile and related component profiles defined in this part provide a standard CIM interface to monitor and control various aspects of removable media libraries including tape libraries. Once a library supports this specification, any SMI-S client based on this standard can discover a tape library, determine its capacity, perform inventory, monitor status, move tapes and perform other configuration and control operations. This part also standardizes library specific life-cycle and alert indications that are delivered to a client asynchronously, once a client subscribes to these indications.

This part covers Part 8 (Media Libraries) of the SMI-S standard listed below. While Part 1 describes SMI-S concepts and terms, some of the profiles referenced in the Storage Library profile are specified in Part 3 Common Profiles book.

Parts of this Standard

This standard is subdivided in the following parts:

- *Storage Management Technical Specification, Part 1 Overview, 1.8.0 Rev 4*
- *Storage Management Technical Specification, Part 2 Common Architecture, 1.8.0 Rev 4*
- *Storage Management Technical Specification, Part 3 Common Profiles, 1.8.0 Rev 4*
- *Storage Management Technical Specification, Part 4 Block Devices, 1.8.0 Rev 4*
- *Storage Management Technical Specification, Part 5 Filesystems, 1.8.0 Rev 4*
- *Storage Management Technical Specification, Part 6 Fabric, 1.8.0 Rev 4*
- *Storage Management Technical Specification, Part 7 Host Elements, 1.8.0 Rev 4*
- *Storage Management Technical Specification, Part 8 Media Libraries, 1.8.0 Rev 4*

SNIA Web Site

Current SNIA practice is to make updates and other information available through their web site at http://www.snia.org

SNIA Address

Requests for interpretation, suggestions for improvement and addenda, or defect reports are welcome. They should be sent via the SNIA Feedback Portal at http://www.snia.org/feedback/ or by mail to the Storage Networking Industry Association, 4360 ArrowsWest Drive, Colorado Springs, Colorado 80907, U.S.A.

© ISO/IEC 2021 – All rights reserved

Documents
Document Sharing Hub

Full document details: BS ISO/IEC 24775-8:2021

© ISO/IEC 2021 – All rights reserved

Documents
Document Sharing Hub

Full document details: BS ISO/IEC 24775-8:2021

1 Scope

This version of the specification models various details of the following objects of the media library for monitoring.

- Library
- Drives
- Changer Devices
- Slots
- IO Slots
- SCSI Interfaces and SCSI and FC Target Ports
- Physical Tapes
- Physical Package
- Magazines

In general, a CIM client can monitor the health and status of the above objects as well as get alert, status change and lifecycle CIM indications. In addition, a client can control the movement of media in a library using this specification.

© ISO/IEC 2021 – All rights reserved

Documents
Document Sharing Hub

Full document details: BS ISO/IEC 24775-8:2021

© ISO/IEC 2021 – All rights reserved

Documents
Document Sharing Hub

Full document details: BS ISO/IEC 24775-8:2021

2 Normative References

2.1 General

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

2.2 Approved references

DMTF DSP1054 v1.2.2, Indications Profile
http://www.dmtf.org/sites/default/files/standards/documents/DSP1054_1.2.2.pdf

ISO/IEC 14776-452, SCSI Primary Commands - 3 (SPC-3) [ANSI INCITS.351-2005]

2.3 References under development

Storage Management Technical Specification, Part 2 Common Architecture, 1.8.0 Rev 4

Storage Management Technical Specification, Part 3 Common Profiles, 1.8.0 Rev 4

Storage Management Technical Specification, Part 4 Block Devices, 1.8.0 Rev 4

© ISO/IEC 2021 – All rights reserved

Documents
Document Sharing Hub

Full document details: BS ISO/IEC 24775-8:2021