INTERNATIONAL ISO/IEC

Second edition
2021-03

Information technology — Storage management —

Part 6:
Fabric

COPYRIGHT PROTECTED DOCUMENT

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 6 Fabric, 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 24775-6:2014), 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).

— Annex: SMI-S Information Model.

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

— Blades Profile

  — Added descriptions for References in CIM_ProductPhysicalComponent.
  — Changed the version to 1.7.0.

— Enhanced Zoning and Enhanced Zoning Control Profile (SMI TWG Reviews)

  — Fixed the version numbers on the Related Profiles to match what the profiles claim.

— Fabric Profile

  — Corrected the Related Profile for FabricVirtualFabrics to be Virtual Fabrics.
  — Fixed the version numbers on the Related Profiles to match what the profiles claim.
  — Deleted the MemberOfCollections in the CIM Elements for the filter collections that were deleted.
  — Defined the condition for Peer Zoning in CIM_ZoneSettingData ZoneMembershipSettingData to Zone).

— Fabric Views Profile

  — In FCSwitchView changed OperationalStatus to SwitchOperationalStatus and FCPortEnabledState to PortEnabledState.
  — In ConcreteComponentView changed Antecedent and Dependent to GroupComponent and PartComponent.
  — Changed the version of the profile to 1.7.0.
  — Changed the Central Class from FCTopologyView to CIM_ViewCapabilities (TSG-SMIS-SCR00333).

— FCoE Fabric (TSG-SMIS-SCR00331)

  — Reworked the profile to be a component profile of the Fabric Profile.
  — Removed the classes associated with experimental indications.
  — Added a definition of CIM_EthernetPort (which was missing).
  — Fixed a number of mifgen warnings.

— FDMI Profile

  — Changed the version of the Profile to be 1.8.0, since we expanded the Speed enumerations

— Inter Fabric Routing Profile

  — Added a SystemDevice between the IFR Switch and the IFR FCPort.
  — Changed the Profile version to 1.7.0.
  — Changed the Central Class from ComputerSystem to CIM_ComputerSystem (IFR Switch) (TSG-SMISSCR00333).

— N Port Virtualizer Profile

  — Fixed the version numbers on the Related Profiles to match what the profiles claim.
  — Changed the Central Class from FCPort to CIM_FCPort (Fabric NPIV) (TSG-SMIS-SCR00333).

— Switch Partitioning Profile

  — Changed the name of the profile to "Switch Partitioning" to make the spec readable.
  — Changed "must" to "shall" in a number of CIM Element tables.
  — Changed the Central Class from ComputerSystem to CIM_ComputerSystem (Partitioning) (TSG-SMISSCR00333).

— Switch Profile

  — Fixed the version numbers on the Related Profiles to match what the profiles claim.
  — Changed the version of the profile to 1.8.0, due to changes to the enumeration of the Speed property.
  — Removed the Switch Configuration Data profile from Related Profiles table, since it has been removed from the spec.
  — Changed the name of the FabricSwitchPartitioning Profile to Switch Partitioning in the Related Profiles table.
  — Changed the Requirement for CIM_ElementSettingData (FCSwitchSettings to ComputerSystem) to Mandatory, since FCSwitchSettings and the Switch are Mandatory.

— Virtual Fabrics Profile

  — Changed the name of the profile to "Virtual Fabrics" to make the spec readable.

— Zone Control Profile

  — Changed the version of the Profile to be 1.8.0, since we added two methods.

— Annex B (Informative) Structure of Fabric Profiles (TSG-SMIS-SCR00331)

  — Updated Figure B.1 to show how FCoE Fabrics fits into the structure of Fabric profiles.

— References

  — Added DMTF DSP1054 v1.2.2, Indications Profile (and changed to V1.2.2 throughout book).
  — Removed SPC-2.
  — Moved SPC-3 reference from 2.2 to 2.1.

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.