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**Part 302:
Zoned Device ATA Command Set-
2-(ZAC-2)**

Technologies de l'information — Attachement AT —

Partie 302: Jeu de commande 2-(ZAC-2) ATA de dispositif de zones

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Foreword (This foreword is not part of American National Standard INCITS 549-2022.)

This standard specifies the command set that host systems use to access storage devices that implement one or more of the zones feature sets. This provides a common command set for systems manufacturers, system integrators, software suppliers, and suppliers of storage devices that provide one or more of the zones feature sets.

Requests for interpretation, suggestions for improvement and addenda, or defect reports are welcome. They should be sent to the INCITS Secretariat, ITI, 700 K Street NW, Suite 600, Washington, DC 20001.

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Introduction

This standard encompasses the following:

Clause 1 describes the scope.

Clause 2 provides normative references for the entire standard.

Clause 3 provides definitions, abbreviations, and conventions used within the entire standard.

Clause 4 describes the features defined by this standard.

Clause 5 describes commands.

Clause 6 describes logs.

Clause 7 describes command normal and error outputs.

Annex A describes zoned devices from a host's perspective.

Annex B describes zone domains and zone realms activate/deactivate scenarios.

1 Scope

The set of AT Attachment standards consists of this standard and the ATA implementation standards described in AT Attachment - 8 ATA/ATAPI Architecture Model (ATA8-AAM). This standard specifies the command set that host systems use to access storage devices that implement the Host Aware Zones feature set (see 4.3), the Host Managed Zones feature set (see 4.4), the Zone Domains feature set (see 4.5), and the Zone Realms feature set (see 4.6). This standard provides a common command set for systems manufacturers, system integrators, software suppliers, and suppliers of storage devices that provide one or more of the zones feature sets. Figure 1 shows the relationship of this standard to other ATA standards as well as related device and host standards and specifications (e.g., SCSI standards and SATA-IO specifications).

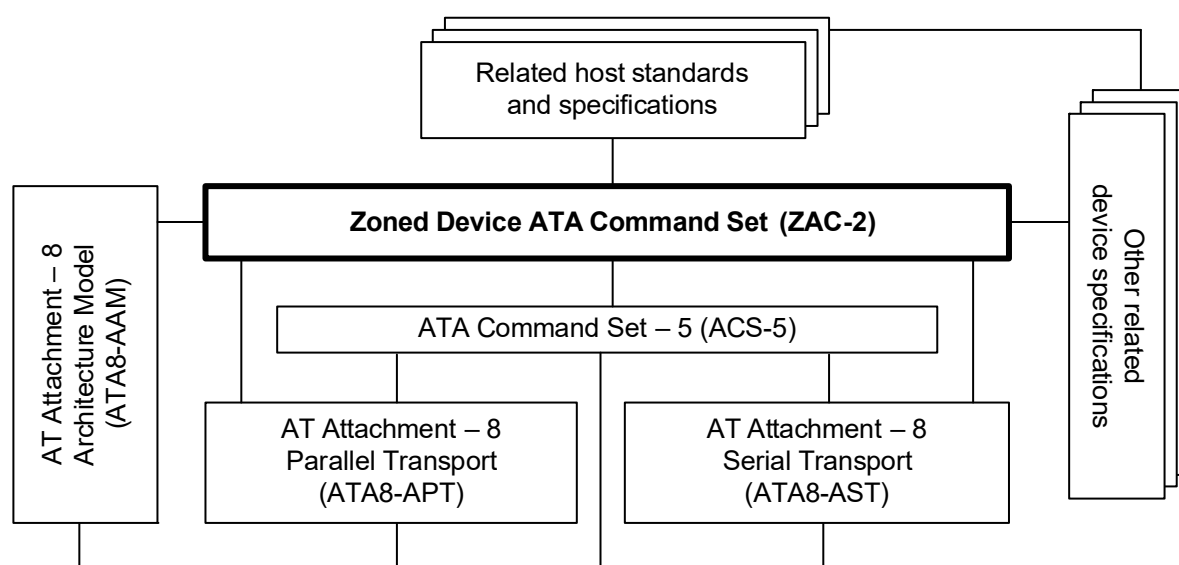


Figure 1 — ATA document relationships

This standard maintains compatibility with the ACS-5 standard, INCITS 558-202x, while providing additional functions.

2 Normative references

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

ISO/IEC 646, *Information technology – ISO 7-bit coded character set for information interchange*¹

INCITS 451-2008, *AT Attachment-8 – ATA/ATAPI Architecture Model (ATA8-AAM)*

INCITS 493-2012, *AT Attachment-8 – Serial Transport (ATA8-AST)*

T13/INCITS BSR 558, *ATA Command Set - 5 (ACS-5)* (under consideration)

T10/INCITS BSR 566, *SCSI Primary Commands - 6 (SPC-6)* (under consideration)

¹ ANSI INCITS 4-1986 (R2017), *Information Systems – Coded Character Sets – 7-Bit American National Standard Code for Information Interchange (7-Bit ASCII)*