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ATEN PDU Base MIB Reference Guide

PE-ATA Series eco PDU

About this Guide

This guide provides documentation and reference for the ATEN-PE-CFG-MIB, which defines the private MIB objects implemented under the ATEN enterprise branch for PE-ATA Power Distribution Units (PDUs).

The purpose of this guide is to help administrators and engineers effectively use the MIB to configure, control, and monitor PE-ATA devices through SNMP-based management platforms. It explains the structure of the MIB, describes the functional object groups, and provides details for each object node supported by the PE-ATA series.

An overview of the information found in the manual is provided below.

Chapter 1, *Module Identity* introduces the module identity and provides an overview of the ATEN-PE-CFG-MIB for PE-ATA devices.

Chapter 2, *User Management Objects* defines objects for configuring user accounts, authentication settings, and access control for PE-ATA devices.

Chapter 3, *Device Control Objects* provides SNMP objects for monitoring device-level information and configuration parameters of the PE-ATA PDU.

Chapter 4, *Outlet Control Objects* describes objects the SNMP objects used for monitoring and controlling outlet-level power operations on the PDU.

Chapter 5, *Bank Control Objects* defines objects for monitoring and configuring bank-level power behavior within the PDU.

Chapter 6, *Device Configuration Objects* details the Device Configuration Objects, which define the PDU's identity, firmware, network, and other core operational settings.

Chapter 7, *Device Security Objects* provides the security-related objects that define authentication behavior, login control, and access-protection policies within the PDU.

Chapter 8, *System Maintenance via SNMP* defines system maintenance objects for custom trap reporting and SNMP-based remote reboot control.

Intended Audience

This guide is intended for:

- Network and system administrators who need to monitor or control ATEN PDUs via SNMP.
- Developers and engineers integrating ATEN devices into third-party SNMP-based management systems.

By following this guide, readers can locate the relevant OIDs, understand their function, and apply them in day-to-day monitoring, troubleshooting, and automation tasks.

Note:

- Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the unit or any connected devices.
- This product may be updated, with features and functions added, improved or removed since the release of this manual. For an up-to-date user manual, visit http://www.aten.com/global/en/

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Conventions

This manual uses the following conventions:

`Monospaced`	Indicates text that you should key in.
[ ]	Indicates keys you should press. For example, [Enter] means to press the **Enter** key. If keys need to be chorded, they appear together in the same bracket with a plus sign between them: [Ctrl+Alt].
1.	Numbered lists represent procedures with sequential steps.
♦	Bullet lists provide information, but do not involve sequential steps.
>	Indicates selecting the option (on a menu or dialog box, for example), that comes next. For example, Start > Run means to open the *Start* menu, and then select *Run*.
⚠	Indicates critical information.

Chapter 1
Module Identity

Overview

The **ATEN-PE-CFG-MIB** defines the private MIB objects implemented under the ATEN enterprise branch for PE-ATA series Power Distribution Units (PDU). This MIB provides configuration, control, and management information for PE-ATA devices through SNMP-based interfaces.
The structure is organized into functional groups, including user management, outlet control, device information, security settings, trap customization, and reboot operations.
By using this MIB, administrators can manage user accounts, control individual outlets, monitor device attributes, configure security parameters, customize trap messages, and integrate PE-ATA devices into standard SNMP-based management platforms.

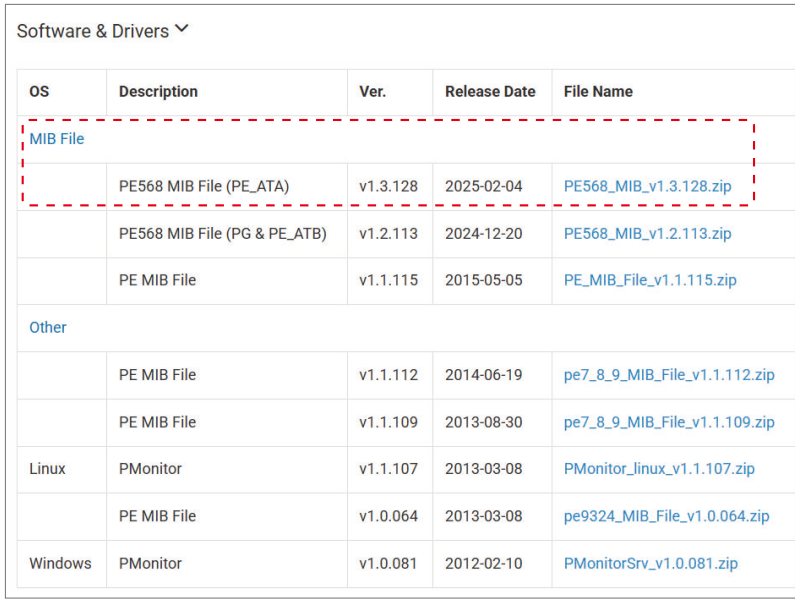
- **Version:** v1.3.128 (PE-ATA)
- **Supported Models**

PE Series	PE5340S, PE5340SL, PE5220s, PE5324, PE5324L, PE5324TA PE6324, PE6324L, PE6108, PE6208 PE8216, PE8324, PE8108, PE8208 PE6108AV, PE6208AV

Downloading MIB Files

To download the latest MIB files:

1. Go to ATEN's website, navigate to the product page, and click the **Support and Downloads** tab.
2. Scroll down to locate the **MIB File** section.



Software & Drivers

OS	Description	Ver.	Release Date	File Name
MIB File				
	PE568 MIB File (PE_ATA)	v1.3.128	2025-02-04	PE568_MIB_v1.3.128.zip
	PE568 MIB File (PG & PE_ATB)	v1.2.113	2024-12-20	PE568_MIB_v1.2.113.zip
	PE MIB File	v1.1.115	2015-05-05	PE_MIB_File_v1.1.115.zip
Other				
	PE MIB File	v1.1.112	2014-06-19	pe7_8_9_MIB_File_v1.1.112.zip
	PE MIB File	v1.1.109	2013-08-30	pe7_8_9_MIB_File_v1.1.109.zip
Linux	PMonitor	v1.1.107	2013-03-08	PMonitor_linux_v1.1.107.zip
	PE MIB File	v1.0.064	2013-03-08	pe9324_MIB_File_v1.0.064.zip
Windows	PMonitor	v1.0.081	2012-02-10	PMonitorSrv_v1.0.081.zip

3. Click to download the MIB file.

MIB Tree Structure

Overview

The **PE-ATA MIB** is defined in the **ATEN-PE-CFG-MIB** module, which provides the private SNMP objects for the PE-ATA series Power Distribution Units (PDUs).

This MIB structure contains entries for:

- User list management
- Outlet / bank / device-level switching control
- Device configuration and security settings
- Custom trap message reporting
- Remote reboot control

All objects are organized under the ATEN enterprise OID subtree and follow standard SNMP conventions for access types, syntax, and device-specific behaviors.

ATEN-PRODUCTS-MIB

- Module Name: `ATEN-PRODUCTS-MIB`

OID Root	`1.3.6.1.4.1.21317`
Organization	ATEN International Co., Ltd.
Contact Info	ATEN Technical Support
Description	This module defines the private MIB objects for ATEN products, including Power Distribution Units (PDU) and related Over-IP devices. The MIB structure is organized under the ATEN enterprise branch of the SNMP MIB tree.

Subtree Structure

- **atenProducts (1.3.6.1.4.1.21317.1)**

  Root node for all ATEN products.

- **overip (1.3.6.1.4.1.21317.1.3)**

  Subtree for ATEN Over-IP devices.

- **poweroverip** (1.3.6.1.4.1.21317.1.3.2)
  Defines MIB objects for ATEN Power Distribution Units (PDU).
  - **pe** (1.3.6.1.4.1.21317.1.3.2.2)
    Node for PE series (including PE-ATA models).
    Contains configuration, control, management, security, trap settings, and reboot operations.
    - **userManagement** (1.3.6.1.4.1.21317.1.3.2.2.1)
      User list and user privilege settings.
      Includes the `usrListTable` and `usrListEntry` objects.
    - **control** (1.3.6.1.4.1.21317.1.3.2.2.2)
      Outlet control operations (on/off/reboot).
    - **deviceManagement** (1.3.6.1.4.1.21317.1.3.2.2.3)
      Device information and configuration parameters.
    - **customTrapMSG** (1.3.6.1.4.1.21317.1.3.2.2.5)
      Custom trap message configuration.
    - **rebootDevice** (1.3.6.1.4.1.21317.1.3.2.2.6)
      Commands for rebooting the PDU.

OID Format

In this document, all Object Identifiers (OIDs) are presented in their numeric form without a leading period.

For example, the OID may be displayed by some SNMP tools as:

.1.3.6.1.4.1.21317.1.3.2.3.1.2.1.2

In this document, it is written as:

1.3.6.1.4.1.21317.1.3.2.3.1.2.1.2

Both notations are equivalent. The leading period is omitted for consistency and readability.

Object Indexing

SNMP defines two types of objects, scalar objects and tabular objects, and their OID usage differs:

Scalar Objects

Scalar objects represent a single instance of information. By SNMP convention, their OIDs must be appended with a trailing **.0** to identify the instance.

For example, `sysName` is defined as:
1.3.6.1.2.1.1.5

The actual instance is:

1.3.6.1.2.1.1.5.0

- **Scalar OID Example**

Example Type	Object	OID / Value
Definition	`sysName`	`1.3.6.1.2.1.1.5`
Instance	`sysName.0`	`"Server-01"`

Tabular Object

Tabular objects represent a set of entries, each identified by an index. The OID must be followed by the index value.

For example, if a table object is defined as:

1.3.6.1.2.1.x.x.x

Its instances are:

1.3.6.1.2.1.x.x.x.1

1.3.6.1.2.1.x.x.x.2

where the index value starts from 1, not 0.

- **Tabular OID Example**

Example Type	Object	OID / Value
Definition	exampleTableEntry	1.3.6.1.2.1.x.x.x
Instance	exampleTableEntry.1	"Entry 1"
	exampleTableEntry.2	"Entry 2"

If the required suffix (**.0** for scalar or index for tables) is not appended, SNMP agents will typically return an error (e.g., No Such Instance).

Chapter 2
User Management Objects

Overview

The userManagement subtree of the ATEN-PE-ATA MIB defines objects related to user configuration, authentication, and access control across managed PDUs. In SNMP terminology, a managed object is any object defined in a MIB module that can be accessed through SNMP operations.

This section provides a structured view of user management within the PDU network. Through its tables and entries, administrators can create and maintain user accounts, assign per-port privileges, and enforce authentication parameters.

Together, these objects form a consistent framework that ensures secure and accountable interaction with the device, enabling controlled power management in multi-user environments.

- `userManagement`

OID	`1.3.6.1.4.1.21317.1.3.2.2.1`
Access	Not-accessible
Description	Root node for user management objects, including subtrees such as `usrListTable` and `usrListEntry`. These objects define user-related configuration, authentication, and authorization data used for access control and operation within the PDU.

usrListTable

- usrListTable

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1
Syntax	SEQUENCE OF UsrListEntry
Access	Not-accessible
Status	Current
Indexes	usrIndex
Description	A list of users defined in the device. Each entry in this table represents a user account with its corresponding authentication parameters and port-level access permissions.

usrListEntry

Each entry provides attributes and configuration parameters of a specific user, indexed by usrIndex.

- usrListEntry

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1
Syntax	UsrListEntry
Access	Not-accessible
Status	Current
Indexes	usrIndex Index identifying each user entry.
Description	Represents a single row of the usrListTable, containing attributes and parameter values associated with an individual user account. These attributes include authentication credentials, permission levels, and configuration data required for SNMP-based access control and operation within the PDU.

usrIndex

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.1
Syntax	INTEGER (1..9)
Access	Read-only
Status	Current
Description	Specifies the index identifier of each user entry. Index 9 represents the administrator; indexes 1 to 8 correspond to regular users

usrType

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.2
Syntax	INTEGER { administrator(1), user(2) }
Access	Read-only
Status	Current
Indexes	usrIndex Identifies the user entry associated with this type value.
Description	Indicates whether the user account is configured as an administrator or a regular user. The value 1 represents an administrator, and 2 represents a regular user.

usrName

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.3
Syntax	DisplayString (SIZE (1..16))
Access	Read-write
Status	Current
Indexes	usrIndex Identifies the user entry associated with this name.
Description	A text string containing the user's login name. The valid length range is 1 to 16 characters.

usrPassword

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.4
Syntax	DisplayString (SIZE (1..16))
Access	Read-write
Status	Current
Indexes	usrIndex Identifies the user entry associated with this password.
Description	A text string that stores the user's password. The valid length range is 1 to 16 characters. For security reasons, passwords are not displayed in plaintext during SNMP queries.

usrEnable

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.47
Syntax	INTEGER { disable(1), enable(2) }
Access	Read-write
Description	Displays or sets whether this user account is enabled.

User Port Authority Controls

Displays and controls the access authority level of each user port (1–42). Each port corresponds to an outlet in PE series PDUs, or a bank/the entire PDU in Energy Monitor series models.

User Port Authority Value Definitions

This section defines the authority levels available for each user port (1–42).

The value indicates the permission level assigned to the user for operating or viewing the corresponding outlet, bank, or PDU.

Authority Levels

- 1 : **Disable**
  The user has no access to the port.
- 2 : **View**
  The user can view the port's status and information but cannot make changes.
- 3 : **Modify**
  The user can control and modify the port settings.
- 4 : **Not supported**
  The authority function is not supported by the device.

usrPort1Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.5
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 1. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort2Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.6
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 2. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort3Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.7
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 3. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort4Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.8
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 4. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort5Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.9
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 5. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort6Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.10
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 6. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort7Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.11
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 7. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort8Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.12
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 8. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort9Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.13
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 9. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort10Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.14
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 10. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort11Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.15
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 11. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort12Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.16
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 12. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort13Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.17
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 13. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort14Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.18
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 14. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort15Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.19
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 15. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort16Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.20
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 16. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort17Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.21
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 17. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort18Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.22
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 18. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort19Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.23
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 19. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort20Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.24
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 20. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort21Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.25
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 21. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort22Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.26
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 22. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort23Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.27
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 23. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort24Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.28
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 24. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort25Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.29
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 25. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort26Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.30
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 26. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort27Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.31
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 27. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort28Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.32
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 28. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort29Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.33
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 29. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort30Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.34
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 30. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort31Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.35
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 31. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort32Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.36
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 32. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort33Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.37
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 33. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort34Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.38
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 34. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort35Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.39
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 35. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort36Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.40
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 36. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort37Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.41
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 37. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort38Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.42
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 38. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort39Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.43
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 39. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort40Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.44
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 40. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort41Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.45
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 41. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

usrPort42Auth

OID	1.3.6.1.4.1.21317.1.3.2.2.1.1.1.46
Syntax	INTEGER { disable(1), view(2), modify(3), not-support(4) }
Access	Read-write
Description	Displays or sets the authority of this user for outlet 42. In PE series PDUs, each port represents an outlet. In Energy Monitor series PDUs, each port represents a bank or the entire PDU.

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Chapter 3
Device Control Objects

Overview

The Control subtree of the ATEN-PE-CFG MIB defines objects for controlling device operations, including outlets, sensors, and environmental functions of the PDU.

The following three chapters describe the Control objects, which include device-level parameters, outlet control entries, and bank-level configuration tables. These objects enable administrators to monitor power conditions, manage outlet operations, and configure environmental responses.

Together, they form the foundation for real-time power control, reboot scheduling, and outlet-level management across the entire PDU system.

- `control`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2`
Access	Not-accessible
Description	Root node for control-related objects. It includes subtrees for device, outlet, and sensor control functions within the PDU, providing real-time management of power and environmental behavior.

device

The device node defines the SNMP objects related to device-level control and monitoring. It provides information on the device's model and name, along with multiple tables that report electrical parameters, sensor readings, and configuration data.
These objects allow the management system to query or monitor the operating conditions of the PDU as a whole, including current, voltage, power, and environmental status.

- `device`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1`
Syntax	N/A (branch)
Access	Not-accessible
Description	Collection of device-level control and configuration objects. This subtree includes parameters for model information, outlet status, configuration tables, and threshold settings. It serves as the main control node for PDU devices.

modelName

Each object under the device subtree provides specific attributes or control parameters related to the PDU's hardware and configuration.

The `modelName` object identifies the product model of the PE device.

- `modelName`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.1`
Syntax	DisplayString
Access	Read-only
Status	Current
Description	Indicates the model name of the PE device.

deviceName

Each object under the device subtree provides detailed attributes or configurable parameters of the PDU hardware.

The `deviceName` object specifies or changes the assigned name of the PE device.

- `deviceName`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.2`
Syntax	DisplayString
Access	Read-write
Status	Current
Description	Specifies the name of the PE device. ◆ Valid string length: 1 to 39. ◆ Input the literal string `/empty` to reset this object to NULL. **Note:** The `/empty` value is a predefined keyword recognized by the SNMP agent. It functions as a reset command and is not equivalent to an empty string (`""`).

deviceValueTable

- deviceValueTable

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.3
Syntax	SEQUENCE OF DeviceValueEntry
Access	Not-accessible
Indexes	deviceValueIndex
Description	A device value table that displays the device's current, voltage, power, and power dissipation readings.

deviceValueEntry

Each entry provides measurement attributes of the device, indexed by the device value index.

- deviceValueEntry

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.3.1
Syntax	DeviceValueEntry
Access	Not-accessible
Indexes	deviceValueIndex
Description	Represents a single entry of the deviceValueTable, containing device-level electrical information such as current, voltage, power, and power factor.

deviceValueIndex

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.3.1.1
Syntax	INTEGER (1)
Access	Read-only
Status	Current
Description	Index of deviceValue.

deviceCurrent

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.3.1.2
Syntax	DisplayString
Access	Read-only
Description	Device electric current value. ◆ If this measurement value is not available, it returns N/A. ◆ If the device does not support this OID, it returns not-support.

deviceVoltage

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.3.1.3
Syntax	DisplayString
Access	Read-only
Description	Device voltage value. ◆ If this measurement value is not available, it returns N/A. ◆ If the device does not support this OID, it returns not-support.

devicePower

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.3.1.4
Syntax	DisplayString
Access	Read-only
Description	Device power value. ◆ If this measurement value is not available, it returns N/A. ◆ If the device does not support this OID, it returns not-support.

devicePowerDissipation

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.3.1.5
Syntax	DisplayString
Access	Read-only
Description	Indicates the device's power dissipation value. ◆ Returns N/A if the measurement is unavailable. ◆ Returns not-support if the device does not support this OID.

inputMaxVoltage

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.3.1.6
Syntax	INTEGER
Access	Read-only
Description	Indicates the device's maximum input voltage value (unit: V). ◆ Returns 0 if the device does not support this OID.

inputMaxCurrent

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.3.1.7
Syntax	INTEGER
Access	Read-only
Description	Indicates the device's maximum input current value (unit: A). ◆ Returns 0 if the device does not support this OID.

powerCapacity

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.3.1.8
Syntax	INTEGER
Access	Read-only
Description	Indicates the device's rated power capacity (unit: VA). ◆ Returns 0 if the device does not support this OID.

devicePowerFactor

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.3.1.9
Syntax	DisplayString
Access	Read-only
Description	Indicates the device's power factor value (unitless). ◆ If the device does not support this OID, it returns `not-support`.

sensorValueTable

- `sensorValueTable`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.4`
Syntax	SEQUENCE OF SensorValueEntry
Access	Not-accessible
Indexes	`sensorValueIndex`
Description	A sensor value table that displays the device's temperature, humidity, and pressure readings.

sensorValueEntry

Each entry provides the measurement attributes of the connected sensors, indexed by the sensor value index.

- `sensorValueEntry`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.4.1`
Syntax	SensorValueEntry
Access	Not-accessible
Indexes	`sensorValueIndex`
Description	Represents a single entry of the `sensorValueTable`, containing sensor-level environmental information such as temperature, humidity, and pressure.

`sensorValueIndex`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.4.1.1`
Syntax	INTEGER (1..6)
Access	Read-only
Status	Current
Description	Index value identifying each sensor entry within the `sensorValueTable`. This index is used to distinguish multiple sensors connected to the device.

sensorTemperature

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.4.1.2
Syntax	DisplayString
Access	Read-only
Description	Indicates the temperature reading reported by the connected sensor (unit: ℃). ◆ Returns N/A if the measurement is unavailable. ◆ Returns not-support if the device does not support this OID.

sensorHumidity

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.4.1.3
Syntax	DisplayString
Access	Read-only
Description	Indicates the humidity reading reported by the connected sensor (unit: %). ◆ Returns N/A if the measurement is unavailable. ◆ Returns not-support if the device does not support this OID.

sensorPressure

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.4.1.4
Syntax	DisplayString
Access	Read-only
Description	Indicates the pressure reading reported by the connected sensor (unit: Pa). ◆ Returns N/A if the measurement is unavailable. ◆ Returns not-support if the device does not support this OID.

sensorProperty

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.4.1.5
Syntax	INTEGER { intake(1), exhaust(2), floor(3) }
Access	Read-only
Description	Indicates the property type of the connected sensor. ◆ intake(1) The sensor monitors the air intake area. ◆ exhaust(2) The sensor monitors the exhaust area. ◆ floor(3) The sensor monitors the floor area.

deviceOutletStatusTable

- deviceOutletStatusTable

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.5
Syntax	SEQUENCE OF DeviceOutletStatusEntry
Access	Not-accessible
Indexes	deviceOutletStatusIndex
Description	A table that displays the operating status of each device outlet, including on/off states and outlet-specific indicators.

deviceOutletStatusEntry

Each entry provides the measurement attributes of the connected sensors, indexed by the sensor value index.

- deviceOutletStatusEntry

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.5.1
Syntax	DeviceOutletStatusEntry
Access	Not-accessible
Indexes	deviceOutletStatusIndex
Description	Represents a single entry of the deviceOutletStatusTable, containing outlet-level information such as the on/off state and display indicators.

deviceOutletStatusIndex

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.5.1.1
Syntax	INTEGER (1..30)
Access	Read-only
Status	Current
Description	Index value identifying each outlet entry within the deviceOutletStatusTable.

displayOutletStatus

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.5.1.2
Syntax	INTEGER { off(1), on(2), pending(3), fault(4), noauth(5), not-support(6), pop(7) }
Access	Read-only
Description	Displays the outlet status. ◆ Returns off (1) when the outlet is powered off. ◆ Returns on (2) when the outlet is powered on. ◆ Returns pending (3) when the utlet switching is in progress. ◆ Returns fault (4) if an abnormal condition occurs on the outlet. ◆ Returns noauth (5) if the user does not have authorization to access this outlet. ◆ Returns not-support (6) if the device does not support this OID. ◆ Returns pop (7) if the outlet module is physically removed or unavailable.

deviceConfigTable

- deviceConfigTable

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.6
Syntax	SEQUENCE OF DeviceConfigEntry
Access	Not-accessible
Indexes	deviceConfigIndex
Description	A table that contains the configuration parameters of the device, including current, voltage, and power threshold settings for each monitored outlet.

deviceConfigEntry

Each entry provides the measurement attributes of the connected sensors, indexed by the sensor value index.

- deviceConfigEntry

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.6.1
Syntax	DeviceConfigEntry
Access	Not-accessible
Indexes	deviceConfigIndex
Description	Represents a single entry of the deviceConfigTable, containing configuration parameters such as minimum and maximum thresholds for current, voltage, and power.

deviceConfigIndex

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.6.1.1
Syntax	INTEGER (1)
Access	Read-only
Status	Current
Description	Index value identifying each configuration entry within the deviceConfigTable.

deviceMinCurMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.6.1.2
Syntax	INTEGER
Access	Read-write
Description	Specifies the minimum current threshold for the device's electrical measurement. ◆ The valid range is 0.0–32.0, where the value represents 0–320. ◆ The minimum threshold must be lower than the configured maximum threshold. ◆ If the value is undefined, the system returns –3000. ◆ If the OID is unsupported by the device, it returns –2000000.

deviceMaxCurMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.6.1.3
Syntax	INTEGER
Access	Read-write
Description	Specifies the maximum current threshold for the device's electrical measurement. ◆ The valid range is 0.0–32.0, corresponding to a current value of 0–320. ◆ The maximum threshold must be higher than the configured minimum threshold. ◆ If the value is undefined, the system returns –3000. ◆ If the OID is unsupported by the device, it returns –2000000.

deviceMinVolMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.6.1.4
Syntax	INTEGER (900…2600 | –3000)
Access	Read-write
Description	Defines the minimum voltage threshold for input power measurement. ◆ The valid range is 90.0–260.0, where the value represents 900–2600. ◆ The minimum threshold must be lower than the configured maximum threshold. ◆ If the value is undefined, the system returns –3000. ◆ If the OID is unsupported by the device, it returns –2000000.

deviceMaxVolMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.6.1.5
Syntax	INTEGER (900…2600 | –3000)
Access	Read-write
Description	Specifies the maximum voltage threshold for input power measurement ◆ The valid range is 90.0–260.0, corresponding to a voltage value of 900–2600. ◆ The maximum threshold must be higher than the configured minimum threshold. ◆ If the value is undefined, the system returns –3000. ◆ If the OID is unsupported by the device, it returns –2000000.

deviceMinPMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.6.1.6
Syntax	INTEGER (0…99999 | –3000)
Access	Read-write
Description	Defines the minimum threshold for power measurement. ◆ The valid range is 0.0–9999.9, corresponding to a voltage value of 0–99999. ◆ The minimum threshold must be lower than the configured maximum threshold. ◆ If the value is undefined, the system returns –3000. ◆ If the OID is unsupported by the device, it returns –2000000.

deviceMaxPMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.6.1.8
Syntax	INTEGER (0…99999 | –3000)
Access	Read-write
Description	Specifies the maximum threshold for power measurement. ◆ The valid range is 0.0–9999.9, corresponding to a voltage value of 0–99999. ◆ The maximum threshold must be higher than the configured minimum threshold. ◆ If the value is undefined, the system returns –3000. ◆ If the OID is unsupported by the device, it returns –2000000.

deviceMaxPDMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.5.1.2
Syntax	INTEGER (0…99999 | –3000)
Access	Read-write
Description	Defines the maximum threshold for power dissipation measurement. ◆ The valid range is 0.0–9999.9, corresponding to a voltage value of 0–99999. ◆ The maximum threshold must be higher than the configured minimum threshold. ◆ If the value is undefined, the system returns –3000. ◆ If the OID is unsupported by the device, it returns –2000000.

deviceSensorTresholdTable

- deviceSensorTresholdTable

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.7
Syntax	SEQUENCE OF DeviceSensorTresholdEntry
Access	Not-accessible
Indexes	deviceSensorTresholdIndex
Description	A table that defines the environmental threshold parameters detected by the device sensors, such as temperature, humidity, and pressure levels. Each entry corresponds to a monitored sensor and stores its configurable upper and lower threshold limits.

deviceSensorTresholdEntry

Each entry provides the measurement attributes of the connected sensors, indexed by the sensor value index.

- deviceSensorTresholdEntry

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.7.1
Syntax	DeviceSensorTresholdEntry
Access	Not-accessible
Indexes	deviceConfigIndex
Description	Represents a single entry of the deviceSensorTresholdTable, defining the configuration parameters for each environmental sensor, including the minimum and maximum thresholds for temperature, humidity, and pressure.

deviceSensorTresholdIndex

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.7.1.1
Syntax	INTEGER (1..6)
Access	Read-only
Status	Current
Description	Index value identifying each environmental sensor entry within the deviceSensorTresholdTable.

sensorMinTempMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.7.1.2
Syntax	INTEGER (-200..600) | -3000
Access	Read-write
Description	Specifies the minimum temperature threshold for the environmental sensor measurement. ◆ The valid range is -20.0 to 60.0, represented as -200 to 600. ◆ The minimum threshold must be lower than the configured maximum temperature threshold. ◆ If the value is undefined, the system returns -3000. ◆ If the OID is unsupported by the device, it returns -2000000.

sensorMaxTempMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.7.1.3
Syntax	INTEGER (-200..600) | -3000
Access	Read-write
Description	Specifies the maximum temperature threshold for the environmental sensor measurement. ◆ The valid range is −20.0 to 60.0, represented as −200 to 600. ◆ The maximum threshold must be higher than the configured minimum temperature threshold. ◆ If the value is undefined, the system returns −3000. ◆ If the OID is unsupported by the device, it returns −2000000.

sensorMinHumMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.7.1.4
Syntax	INTEGER (100..950) | –3000
Access	Read-write
Description	Specifies the minimum humidity threshold for the environmental sensor measurement. ◆ The valid range is −10.0 to 95.0, represented as −100 to 950. ◆ The minimum threshold must be lower than the configured maximum humidity threshold. ◆ If the value is undefined, the system returns −3000. ◆ If the OID is unsupported by the device, it returns −2000000.

sensorMaxHumMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.7.1.5
Syntax	INTEGER (100..950) | –3000
Access	Read-write
Description	Specifies the maximum voltage threshold for input power measurement ◆ The valid range is –10.0 to 95.0, represented as –100 to 950. ◆ The maximum threshold must be higher than the configured minimum humidity threshold. ◆ If the value is undefined, the system returns –3000. ◆ If the OID is unsupported by the device, it returns –2000000.

sensorMinPressMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.7.1.6
Syntax	INTEGER (–2500..2500) | –3000
Access	Read-write
Description	Specifies the minimum pressure threshold for the environmental sensor measurement. ◆ The valid range is –250.0 to 250.0, represented as –2500 to 2500. ◆ The minimum threshold must be lower than the configured maximum pressure threshold. ◆ If the value is undefined, the system returns –3000. ◆ If the OID is unsupported by the device, it returns –2000000.

sensorMaxPressMTT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.7.1.7
Syntax	INTEGER (–2500..2500) | –3000
Access	Read-write
Description	Specifies the maximum pressure threshold for the environmental sensor measurement ◆ The valid range is –250.0 to 250.0, represented as –2500 to 2500. ◆ The maximum threshold must be higher than the configured minimum pressure threshold. ◆ If the value is undefined, the system returns –3000. ◆ If the OID is unsupported by the device, it returns –2000000.

deviceOutletControl

Each object in this entry defines the control status for all power outlets on the device. Users can set the value to turn outlets on or off simultaneously.

- `deviceOutletControl`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.8`
Syntax	INTEGER { off(1), on(2), nostatus(3), not-support(4) }
Access	Read-write
Status	Current
Description	Controls the on/off status of all outlet ports. ◆ Set to `1 (off)` to turn off all outlets. ◆ Set to `2 (on)` to turn on all outlets. ◆ Returns `3 (nostatus)` when outlet status is unavailable. ◆ Returns `4 (not-support)` if the function is not supported by the device

deviceOutletReboot

This object allows users to trigger a reboot operation for all power outlets simultaneously. The reboot command is only valid when the outlets are currently turned on.

- `deviceOutletReboot`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.9`
Syntax	INTEGER { no(1), yes(2), not-support(4) }
Access	Read-write
Status	Current
Description	Executes a reboot command for all outlet ports. ◆ Set to `2 (yes)` to reboot all outlets when they are powered on. ◆ Returns `1 (no)` when no reboot action is performed. ◆ Returns `4 (not-support)` if the reboot control is not supported by the device.

switchable

This object indicates whether the device's power outlets can be switched on or off through control commands. It provides information about the outlet's switchable capability.

- `switchable`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.10`
Syntax	INTEGER { no(1), yes(2), mix(3) }
Access	Read-only
Status	Current
Description	Indicates the outlet's switchable capability. ◆ `1 (no)` The outlet cannot be switched through software control. ◆ `2 (yes)` The outlet supports switching control. ◆ `3 (mix)` Some outlets are switchable, while others are not.

perportreading

This object identifies whether the device supports per-port power measurement. When enabled, each outlet can report its own power consumption data independently.

- `perportreading`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.11`
Syntax	INTEGER { no(1), yes(2) }
Access	Read-only
Status	Current
Description	Indicates whether per-port power reading is supported. ◆ `1 (no)` The device does not provide individual outlet readings. ◆ `2 (yes)` Each outlet provides its own power consumption reading.

sensornumber

This object reports the total number of environmental sensors currently connected to the device. It helps identify how many sensors are active for temperature, humidity, or pressure monitoring.

- `sensornumber`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.12`
Syntax	INTEGER
Access	Read-only
Status	Current
Description	Indicates the number of sensors detected by the device. The value represents the total count of connected environmental sensors.

outletnumber

This object specifies the total number of power outlets available on the device. It allows users or management systems to identify how many controllable outlets are present.

- `outletnumber`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.13`
Syntax	INTEGER
Access	Read-only
Status	Current
Description	Reports the number of power outlets on the device. The value corresponds to the total outlet count supported by the hardware for switching and monitoring operations.

banknumber

This object indicates the total number of outlet banks available on the device. Each bank represents a physical or logical group of power outlets that can be managed collectively.

- `banknumber`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.14`
Syntax	INTEGER { no(1), yes(2), not-support(4) }
Access	Read-only
Status	Current
Description	Reports the number of outlet banks configured on the device. Each bank groups multiple outlets for easier power control and monitoring.

dryContactTable

- dryContactTable

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.15
Syntax	SEQUENCE OF DryContactEntry
Access	Not-accessible
Indexes	dryContactIndex
Description	A table containing the configuration and status entries of the device's Dry Contact interfaces. Each entry provides monitoring information such as the index, connection status, and input type of every Dry Contact port.

dryContactEntry

Represents a Dry Contact interface on the device, providing indexed data for status monitoring and type configuration.

- dryContactEntry

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.15.1
Syntax	DryContactEntry
Access	Not-accessible
Indexes	dryContactIndex
Description	Represents a single entry within the dryContactTable. Each entry corresponds to one Dry Contact port on the device and provides detailed information such as its index, connection status, and configured input type.

dryContactIndex

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.15.1.1
Syntax	INTEGER (1..2)
Access	Read-only
Status	Current
Description	An index value that uniquely identifies each Dry Contact entry within the dryContactTable.

dryContactStatus

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.15.1.2
Syntax	INTEGER { normal(0), alert(1), not-attached(2), not-support(10) }
Access	Read-only
Description	Displays the operational status of each Dry Contact port. The returned value represents the detected state as follows: ◆ 0: Normal ◆ 1: Alert condition triggered ◆ 2: Port not attached ◆ 10: Function not supported by the device

dryContactType

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.15.1.3
Syntax	INTEGER { notinstalled(0), photo(1), inductiveproximity(2), reed(3), waterleakage(4), not-support(10) }
Access	Read-write
Description	Defines the type of sensor connected to the Dry Contact port. The value represents the sensor category as follows: ◆ 0: Not installed ◆ 1: Photo sensor ◆ 2: Inductive proximity sensor ◆ 3: Reed switch ◆ 4: Water leakage sensor ◆ 10: Function not supported by the device

pop

Defines the configuration group for POP control, including settings for enabling mode and managing outlet priorities.

- `pop`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.17`
Syntax	N/A
Status	Current
Description	Represents the POP (Power On Priority) configuration group. It enables sequential power-up control to prevent inrush current and ensure stable outlet startup.

`enablePOPmode`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.17.1`
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls the POP (Power On Priority) mode for the device. When enabled, the device activates outlets sequentially according to the configured priority, ensuring stable power distribution during system startup. ◆ `no(1)`: Disable ◆ `yes(2)`: Enable

`popThreshold`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.17.2`
Syntax	INTEGER
Access	Read-write
Description	Specifies the POP threshold value. ◆ The valid range is `0.0–32.0`, representing `0–320`. ◆ `(-1)` indicates the default value, same as the bank's maximum current (16 A). ◆ You can set a custom POP threshold or use `(-1)` to apply the default.

enableOutletPOPmode

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.17.3
Syntax	INTEGER { no(1), yes(2), not-support(3) }
Access	Read-write
Description	Controls the POP mode at the outlet level. When enabled, outlets follow the configured priority sequence during power-up. ◆ no(1): Disable ◆ yes(2): Enable ◆ not-support(3): Function unsupported

enableLIFOPOPmode

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.17.4
Syntax	INTEGER { no(1), yes(2), not-support(3) }
Access	Read-write
Description	Controls whether the LIFO POP sequence is applied during outlet startup. ◆ no(1): Disable ◆ yes(2): Enable ◆ not-support(3): Function unsupported

enablePriorityPOPmode

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.17.5
Syntax	INTEGER { no(1), yes(2), not-support(3) }
Access	Read-write
Description	Controls whether outlet startup follows assigned priority levels. ◆ no(1): Disable ◆ yes(2): Enable ◆ not-support(3): Function unsupported

popPriorityList

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.17.6
Syntax	DisplayString
Access	Read-write
Description	Defines outlet priority mapping for POP mode. ◆ Outlet separator: **,** ◆ Bank separator: **#** Assign each priority in ascending order by outlet index or use 0 for N/A.
Example	For model PE8324: ◆ Bank 1: Outlets 1–16 ◆ Bank 2: Outlets 17–24 To assign: ◆ Priority 2 and 5 of Bank 1 to Outlets 14 and 3 ◆ Priority 2, 6, and 8 of Bank 2 to Outlets 17, 23, and 24 ◆ Leave all others as N/A Enter: 0,14,0,0,3,0,0,0,0,0,0,0,0,#0,17,0,0,0,23,0,24

cap

Defines the configuration group for CAP control, including settings for enabling CAP mode and managing outlet priorities.

- `cap`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.18`
Syntax	N/A
Status	Current
Description	Represents the CAP (Critical Activity Power) configuration group. It provides settings for prioritizing critical outlets to maintain power supply stability during limited power availability or recovery conditions.

`enableCAPmode`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.18.1`
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Enables or disables the CAP (Critical Activity Power) mode. When enabled, the system manages power distribution based on outlet priority to ensure stable operation during limited power availability. ◆ `no(1)`: Disable ◆ `yes(2)`: Enable

outletCAPTable

Each entry provides attributes and configuration parameters of a specific outlet under CAP control, indexed by `outletCAPIndex`.

- `outletCAPTable`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.18.2`
Syntax	SEQUENCE OF OutletCAPEntry
Access	Not-accessible
Status	Current
Indexes	`outletCAPIndex` Index identifying each outlet entry.
Description	Represents a single row of the `outletCAPTable`, containing attributes and parameters used to manage CAP (Critical Activity Power) priorities for each outlet. These entries determine the relative importance of outlets during limited power supply conditions.

outletCAPEntry

Represents an outlet entry within the CAP table, providing indexed data for CAP priority configuration and management

- `outletCAPEntry`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.18.2.1`
Syntax	OutletCAPEntry
Access	Not-accessible
Indexes	`outletCAPIndex`
Description	Represents a single entry within the `outletCAPTable`. Each entry corresponds to one outlet on the device and provides detailed CAP-related information such as its index and assigned priority level used in power allocation during CAP operation.

outletCAPIndex

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.18.2.1.1
Syntax	INTEGER (1..40)
Access	Read-only
Status	Current
Description	An index value that uniquely identifies each outlet CAP entry within the outletCAPTable.

outletCAPPriority

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.18.2.1.2
Syntax	INTEGER (0..99)
Access	Read-write
Description	Displays or sets the CAP (Critical Activity Power) priority of each outlet. The returned or assigned value represents the outlet's CAP priority level as follows: ◆ 0: CAP function not supported by this outlet ◆ 1–99: Valid CAP priority level (higher value indicates higher priority)

outletInitMode

Defines the initialization mode of outlets during device startup. It configures whether outlets start immediately or after a preset delay.

- `outletInitMode`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.19`
Syntax	INTEGER { no-delaytime(1), delaytime(2), not-support(3) }
Access	Read-write
Status	Current
Description	Specifies the outlet initialization mode used at power-up. The value meanings are as follows: ◆ `1` : No delay time before outlets are turned on ◆ `2` : Delay time applied before outlets are turned on ◆ `3` : Function not supported by the device

outletSequentialReboot

Controls whether all outlet ports perform sequential reboots when activated, enabling one-by-one restarts to avoid power surges.

- `outletSequentialReboot`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.20`
Syntax	INTEGER { no(1), yes(2), not-support(3) }
Access	Read-write
Status	Current
Description	Enables or disables sequential reboot for all outlets. The value meanings are as follows: ◆ `1` : Sequential reboot disabled ◆ `2` : Sequential reboot enabled ◆ `3` : Function not supported by the device

serialNumber

This object displays the serial number assigned to the device for identification and management purposes.

- `serialNumber`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.21`
Syntax	DisplayString
Access	Read-only
Status	Current
Description	Displays the device serial number.

dryContactV2

Defines the configuration group for Dry Contact V2 control. It includes objects for monitoring and configuring the V2-type Dry Contact ports on the device.

- `dryContactV2`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.22`
Syntax	N/A
Status	Current
Description	Represents the Dry Contact V2 configuration group, which manages the second-generation Dry Contact interfaces for monitoring and input-type settings.

dryContactV2StatusTable

Each entry provides the current status information of each Dry Contact V2 port on the device, indexed by `dryContactV2Index`.

- `dryContactV2StatusTable`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.22.1`
Syntax	SEQUENCE OF DryContactV2StatusEntry
Access	Not-accessible
Status	Current
Indexes	`dryContactV2Index`
Description	Represents a single row of the `dryContactV2StatusTable`, containing status data and monitoring attributes for each Dry Contact V2 input. These entries allow the device to report real-time open/close states and signal changes detected by the dry contact sensors.

dryContactV2StatusEntry

Represents a dry contact entry within the Dry Contact V2 status table, providing indexed data for dry contact value monitoring and management.

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.22.1.1
Syntax	DryContactV2StatusEntry
Access	Not-accessible
Indexes	dryContactV2Index
Description	Represents a single entry within the dryContactV2StatusTable. Each entry represents a dry contact input and provides status details including its index, open/close state, and detected signal condition.

■ dryContactV2Index

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.22.1.1.1
Syntax	INTEGER (1..2)
Access	Read-only
Status	Current
Description	An index value that uniquely identifies each dry contact entry within the dryContactV2StatusTable.

■ dryContact1Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.22.1.1.2
Syntax	INTEGER { normal(0), alert(1), not-attached(2), not-support(10) }
Access	Read-only
Status	Current
Description	Displays the status of dry contact connector 1. The value indicates the input condition, such as normal, alert, or not attached, for monitoring the dry contact state. ◆ 0 : Normal (no alert condition detected) ◆ 1 : Alert (triggered or active alarm state) ◆ 2 : Not attached (connector not installed or detected) ◆ 10 : Function not supported by the device

■ **dryContact2Status**

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.22.1.1.3
Syntax	INTEGER { normal(0), alert(1), not-attached(2), not-support(10) }
Access	Read-only
Description	Displays the status of dry contact connector 2. The value indicates the input condition, such as normal, alert, or not attached, for monitoring the dry contact state. ◆ 0: Normal (no alert condition detected) ◆ 1: Alert (triggered or active alarm state) ◆ 2: Not attached (connector not installed or detected) ◆ 10: Function not supported by the device

dryContactV2TypeTable

Each entry provides configuration and type information of each Dry Contact V2 port on the device, indexed by dryContactV2Index.

◆ dryContactV2TypeTable

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.22.2
Syntax	SEQUENCE OF DryContactV2TypeEntry
Access	Not-accessible
Status	Current
Indexes	dryContactV2Index
Description	Represents a single row of the dryContactV2TypeTable, containing type configuration attributes for each Dry Contact V2 input. These entries define the contact input type (e.g., normally open or normally closed) used to interpret signal behavior and event detection.

dryContactV2TypeEntry

Represents a dry contact entry within the Dry Contact V2 type table,

providing indexed data for dry contact type configuration and management.

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.22.2.1
Syntax	DryContactV2TypeEntry
Access	Not-accessible
Indexes	dryContactV2Index
Description	Represents a single entry within the dryContactV2TypeTable. Each entry corresponds to one dry contact input on the device and provides configuration details such as input index and defined contact type (normally open or normally closed).

■ **dryContact1Type**

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.22.2.1.1
Syntax	INTEGER { notinstalled(0), photo(1), inductiveproximity(2), reed(3), waterleakage(4), not-support(10) }
Access	Read-write
Status	Current
Description	Defines the sensor type of dry contact connector 1. The value specifies the type of sensor connected for signal detection and event monitoring. ◆ 0 : Not installed (no sensor connected) ◆ 1 : Photo sensor ◆ 2 : Photo sensor ◆ 3 : Reed switch ◆ 4 : Water leakage sensor ◆ 10 : Function not supported by the device

■ dryContact2Type

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.22.2.1.2
Syntax	INTEGER { notinstalled(0), photo(1), inductiveproximity(2), reed(3), waterleakage(4), not-support(10) }
Access	Read-write
Description	Defines the sensor type of dry contact connector 2. The value specifies the type of sensor connected for signal detection and event monitoring. ◆ 0 : Not installed (no sensor connected) ◆ 1 : Photo sensor ◆ 2 : Photo sensor ◆ 3 : Reed switch ◆ 4 : Water leakage sensor ◆ 10 : Function not supported by the device

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Chapter 4
Outlet Control Objects

Overview

The Control subtree of the ATEN-PE-CFG MIB defines objects used to manage device operations, including outlets, sensors, and environmental functions of the PDU.

These objects provide the parameters and control entries required to monitor power conditions, manage outlet behavior, and configure environmental responses.Collectively, they support coordinated power management, automated reboot control, and outlet operation across all connected devices.

- `control`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2`
Access	Not-accessible
Description	Root node for control-related objects. It includes subtrees for device, outlet, and sensor control functions within the PDU, providing real-time management of power and environmental behavior.

outlet

The outlet node defines the SNMP objects related to outlet-level monitoring and control. It contains tables and entries for outlet values, configurations, and individual outlet statuses.

These objects enable the management system to monitor power output, control switching states, and configure outlet parameters for each connected device. They collectively support outlet-based scheduling, sequencing, and fault detection functions.

- `outlet`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2`
Syntax	N/A (branch)
Access	Not-accessible
Description	Collection of outlet-related control and monitoring objects. ◆ Includes tables for outlet values, configurations, and status reporting. ◆ Serves as the control subtree for outlet operations and management within the PDU system.

outletValueTable

- `outletValueTable`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1`
Syntax	SEQUENCE OF outletValueEntry
Access	Not-accessible
Indexes	`outletValueIndex`
Description	Represents the table that stores all outlet value entries. ◆ Provides access to outlet measurement data such as current, voltage, and power readings. ◆ Serves as the parent table for individual outlet value objects used in monitoring and control.

outletValueEntry

Represents an individual outlet entry that provides indexed measurement data for monitoring electrical parameters such as current, voltage, and power usage.

- `outletValueEntry`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.1`
Syntax	OutletValueEntry
Access	Not-accessible
Indexes	`outletValueIndex`
Description	Represents a single entry within the `outletValueTable`. Each entry corresponds to one outlet on the device and provides detailed measurement data, including its current draw, voltage level, power consumption, and other related electrical values used for real-time monitoring and control.

outletValueIndex

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.1.1.1`
Syntax	INTEGER (1..30)
Access	Read-only
Status	Current
Description	An index value that uniquely identifies each outlet entry within the `outletValueTable`. Each index corresponds to one physical outlet on the PDU and is used to retrieve its measurement and status data.

outletCurrent

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.1.1.2
Syntax	DisplayString
Access	Read-only
Description	Displays the measured electric current of the outlet in amperes (A). The value reflects the outlet's real-time load condition. ◆ Returns N/A if the measurement is unavailable. ◆ Returns not-support if the device does not implement this OID.

outletVoltage

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.1.1.3
Syntax	DisplayString
Access	Read-only
Description	Displays the voltage level measured at the outlet in volts (V). The value reflects the real-time operating voltage of the connected load. ◆ Returns N/A when the voltage reading is unavailable. ◆ Returns not-support if the device does not provide this measurement.

outletPower

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.1.4
Syntax	DisplayString
Access	Read-only
Description	Displays the real-time power consumption of the outlet in watts (W). The value represents the active power drawn by the connected device. ◆ Returns N/A if the measurement is unavailable. ◆ Returns not-support if the device does not implement this OID.

outletPowerDissipation

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.1.5
Syntax	DisplayString
Access	Read-only
Description	Displays the outlet's power dissipation in watts (W). The value represents the amount of power converted into heat by the connected device. ◆ Returns N/A if the measurement is unavailable. ◆ Returns not-support if this OID is not implemented by the device.

outletMaxCurrent

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.1.6
Syntax	DisplayString
Access	Read-only
Description	Displays the maximum allowable current for the outlet in amperes (A). The value indicates the rated current limit defined for the specific outlet. ◆ Returns 0 if this OID is not supported by the device.

outletPowerFactor

OID	1.3.6.1.4.1.21317.1.3.2.2.2.1.1.7
Syntax	DisplayString
Access	Read-only
Description	Displays the power factor of the outlet, indicating the efficiency of power usage by the connected load.. ◆ Returns not-support if the device does not implement this OID.

Outlet Status Controls

Displays and controls the power status of each outlet (1–42).
Each outlet can be turned on, off, rebooted, or monitored for status changes.

Outlet Status Value Definitions

This section defines the common status values used by each outlet (1–42).

The value indicates the current or target operational state of the outlet for power switching and feedback reporting.

Status Values

- `1` : **Off**
  The outlet is turned off.
- `2` : **On**
  The outlet is powered on.
- `3` : **Pending**
  Transitional state; the outlet is processing a power operation (cannot be manually set).
- `4` : **Reboot**
  The outlet is in a reboot cycle (off then on).
- `5` : **Fault**
  Outlet fault detected or unable to switch as commanded.
- `6` : **No authorization**
  Command rejected due to insufficient permission.
- `7` : **Not supported**
  Function not supported by the device.
- `8` : **Pop**
  Outlet state recovery or synchronization in progress.

outlet1Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.2
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 1. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet2Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.3
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 2. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet3Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.4
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 3. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet4Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.5
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 4. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet5Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.6
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 5. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet6Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.7
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 6. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet7Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.8
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 7. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet8Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.9
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 8. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet9Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.11
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 9. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet10Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.12
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 10. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet11Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.13
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 11. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet12Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.14
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 12. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet13Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.15
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 13. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet14Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.16
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 14. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet15Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.17
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 15. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet16Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.18
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 16. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet17Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.19
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 17. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet18Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.20
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 18. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet19Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.21
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 19. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet20Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.22
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 20. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet21Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.23
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 21. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet22Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.24
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 22. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet23Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.25
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 23. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet24Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.26
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 24. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet25Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.27
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 25. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet26Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.28
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 26. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet27Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.29
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 27. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet28Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.30
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 28. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet29Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.31
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 29. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet30Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.32
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 30. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet31Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.33
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 31. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet32Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.34
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 32. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet33Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.35
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 33. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet34Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.36
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 34. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet35Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.37
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 35. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet36Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.38
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 36. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet37Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.39
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 37. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet38Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.40
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 38. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet39Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.41
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 39. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet40Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.42
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 40. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet41Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.43
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 41. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outlet42Status

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.44
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays and controls the status of outlet 42. The value specifies the current or target state of the outlet for power switching and operational feedback. See *Outlet Status Value Definitions*, page 74 for reference.

outletConfigTable

- `outletConfigTable`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.2.10`
Syntax	SEQUENCE OF OutletConfigEntry
Access	Not-accessible
Indexes	`outletConfigIndex`
Description	Represents the table that contains configuration settings for all outlets. ◆ Provides access to parameters such as outlet name, delay time, and shutdown method. ◆ Acts as the parent table for configuration entries used in outlet management.

outletConfigEntry

Represents an individual configuration entry for a specific outlet, defining its behavior, limits, and operational parameters.

- `outletConfigEntry`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.2.10.1`
Syntax	OutletConfigEntry
Access	Not-accessible
Indexes	`outletConfigIndex`
Description	Represents a single configuration entry within the `outletConfigTable`. Each entry corresponds to one outlet and defines its configuration attributes, including name, confirmation settings, power-on/off delay times, and shutdown behavior. Provides reference information for managing outlet-specific operational limits and parameters.

outletConfigIndex

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.10.1.1
Syntax	INTEGER (1..30)
Access	Read-only
Status	Current
Description	Defines a unique index that identifies each outlet configuration entry within the outletConfigTable. Each index corresponds to a physical outlet on the PDU and is used to access or reference its configuration data.

outletName

OID	1.3.6.1.4.1.21317.1.3.2.2.2.10.1.2
Syntax	DisplayString
Access	Read-write
Description	Displays or sets the outlet name for identification and management purposes. The name can be customized by the user to facilitate outlet recognition in the system interface. ◆ Returns N/A when this OID is unsupported by the device. ◆ Accepts string length from 0–48 characters. ◆ Input the literal string /empty to reset the outlet name to NULL **Note:** The /empty value is a predefined keyword recognized by the SNMP agent. It functions as a reset command and is not equivalent to an empty string ("") .

outletConfirmation

OID	1.3.6.1.4.1.21317.1.3.2.2.2.10.1.3
Syntax	INTEGER {off(1), on(2), pending(3), reboot(4), fault(5), noauth(6), not-support(7), pop(8)}
Access	Read-write
Description	Displays or defines whether the outlet requires confirmation before executing a power control command. The value indicates the outlet's confirmation setting used for operation validation. ◆ 1 (no): Confirmation is not required. ◆ 2 (yes): Confirmation is required before performing the operation. ◆ 3 (noauth): Confirmation disabled due to insufficient privileges or authentication. ◆ 4 (not-support): The outlet does not support confirmation control.

outletOnDelayTime

OID	1.3.6.1.4.1.21317.1.3.2.2.2.10.1.4
Syntax	INTEGER (0..999 |-1)
Access	Read-write
Description	Defines the delay time (in seconds) before the outlet turns on, allowing sequential startup to prevent inrush current. Value definitions: ◆ 0–999: Delay time in seconds. ◆ –1: Indicates that this OID is not supported by the current model.

outletOffDelayTime

OID	1.3.6.1.4.1.21317.1.3.2.2.2.10.1.5
Syntax	INTEGER (0..999 |-1)
Access	Read-write
Description	Defines the delay time (in seconds) before the outlet turns off, allowing sequential shutdown to prevent power surge or load imbalance. Value definitions: ◆ 0–999: Delay time in seconds. ◆ -1: Indicates that this OID is not supported by the current model.

outletShutdownMethod

OID	1.3.6.1.4.1.21317.1.3.2.2.2.10.1.6
Syntax	INTEGER {kill-the-power(1), wake-on-lan(2), after-ac-back(3), not-support(4)}
Access	Read-write
Description	Displays or defines the outlet's shutdown behavior after a power control command is issued. The value indicates the shutdown method applied to the outlet. ◆ 1 (kill-the-power): Immediately cuts off the outlet power. ◆ 2 (wake-on-lan): Keeps the outlet powered to support Wake-on-LAN functionality. ◆ 3 (after-ac-back): Restores the outlet power after AC input is recovered. ◆ 4 (not-support): The outlet does not support this function.

outletMAC

OID	1.3.6.1.4.1.21317.1.3.2.2.2.10.1.7
Syntax	DisplayString
Access	Read-write
Description	Defines or displays the MAC address associated with the outlet. ◆ Returns n/a when this OID is unsupported by the device. ◆ String length: 12

outletMinCurMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.10.1.8
Syntax	INTEGER
Access	Read-write
Description	Specifies the minimum current threshold for the outlet's electrical measurement. ◆ Valid range: 0.0–16.0 (represents 0–160). ◆ The minimum threshold must be lower than the configured maximum threshold. ◆ Empty value: –3000. ◆ Unsupported OID: –2000000.

outletMaxCurMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.10.1.9
Syntax	INTEGER
Access	Read-write
Description	Specifies the maximum current threshold for the outlet's electrical measurement. ◆ Valid range: 0.0–16.0 (represents 0–160). ◆ The maximum threshold must be higher than the configured minimum threshold. ◆ Empty value: –3000. ◆ Unsupported OID: –2000000.

outletMinVolMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.10.1.10
Syntax	INTEGER (900..2600 | –3000 | –2000000)
Access	Read-write
Description	Specifies the minimum voltage threshold for the outlet's electrical measurement. ◆ Valid range: 90.0–260.0 (represents 900–2600). ◆ The minimum threshold must be lower than the configured maximum threshold. ◆ Empty value: –3000. ◆ Unsupported OID: –2000000.

outletMaxVolMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.10.1.11
Syntax	INTEGER (900..2600 | –3000 | –2000000)
Access	Read-write
Description	Specifies the maximum voltage threshold for the outlet's electrical measurement. ◆ Valid range: 90.0–260.0 (represents 900–2600). ◆ The maximum threshold must be higher than the configured minimum threshold. ◆ Empty value: –3000. ◆ Unsupported OID: –2000000.

outletMinPMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.10.1.12
Syntax	INTEGER (0..99999 | –3000 | –2000000)
Access	Read-write
Description	Specifies the minimum power threshold for the outlet's measurement. ◆ Valid range: 0.0–9999.9 (represents 0–99999). ◆ The minimum threshold must be lower than the configured maximum threshold. ◆ Empty value: –3000. ◆ Unsupported OID: –2000000.

outletMaxPMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.10.1.13
Syntax	INTEGER (0..99999 | –3000 | –2000000)
Access	Read-write
Description	Specifies the maximum power threshold for the outlet's measurement. ◆ Valid range: 0.0–9999.9 (represents 0–99999). ◆ The maximum threshold must be higher than the configured minimum threshold. ◆ Empty value: –3000. ◆ Unsupported OID: –2000000.

outletMaxPDMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.10.1.14
Syntax	INTEGER (0..99999 | –3000 | –2000000)
Access	Read-write
Description	Specifies the maximum power dissipation threshold for the outlet's measurement. ◆ Valid range: 0.0–9999.9 (represents 0–99999). ◆ The maximum threshold must be higher than the configured minimum threshold. ◆ Empty value: –3000. ◆ Unsupported OID: –2000000.

outletLocalAccessLock

OID	1.3.6.1.4.1.21317.1.3.2.2.2.10.1.15
Syntax	INTEGER {unlocked(1), locked(2), not-support(3)}
Access	Read-write
Description	Displays or defines whether the outlet's local access is locked by a remote controller. The value indicates the current local access status of the outlet: ◆ 1 (unlocked): Local access is enabled. ◆ 2 (locked): Local access is disabled due to remote lock control. ◆ 3 (not-support): The outlet does not support local access lock.

outletSwitchableTable

- outletSwitchableTable

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.70
Syntax	SEQUENCE OF OutletSwitchableEntry
Access	Not-accessible
Indexes	outletSwitchableIndex
Description	Defines the table that lists the switchable state entries for each outlet. ◆ Provides index references for identifying which outlets can be switched on or off. ◆ Serves as the parent table for outletSwitchableEntry used in outlet control management.

outletSwitchableEntry

Represents an individual entry within the outletSwitchableTable, defining switchable states and index mapping for each outlet.

- outletSwitchableEntry

OID	1.3.6.1.4.1.21317.1.3.2.2.2.2.70.1
Syntax	OutletSwitchableEntry
Access	Not-accessible
Indexes	outletSwitchableIndex
Description	Represents a single entry under the outletSwitchableTable. ◆ Each entry corresponds to a specific outlet identified by its index. ◆ Defines whether the outlet supports switching operations. ◆ Serves as a structural reference for managing outlet-level switchable control.

outletSwitchableIndex

OID	1.3.6.1.4.1.21317.1.3.2.2.2.70.1.1
Syntax	INTEGER (1..30)
Access	Read-only
Status	Current
Description	Defines the index value that identifies each outlet within the outletSwitchableTable. Each index corresponds to a physical outlet on the PDU and is used to access or reference its switchable state.

outletSwitchable

OID	1.3.6.1.4.1.21317.1.3.2.2.2.70.1.2
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Indicates whether the outlet supports power switching operations. The name can be customized by the user to facilitate outlet recognition in the system interface. ◆ 1 (no): The outlet cannot be switched by control commands. ◆ 2 (yes): The outlet supports on/off or reboot operations through management control.

Chapter 5
Bank Control Objects

Overview

The Control subtree of the ATEN-PE-CFG MIB defines objects used to manage the operational behavior of the PDU, including devices, outlets, and banks. These objects provide parameters and control entries that allow administrators to monitor power status, configure outlet and bank operations, and manage coordinated power responses.

The Bank Control Objects further define parameters and tables associated with each power bank. They enable monitoring of bank-level values, configuration of thresholds, and execution of control actions that affect grouped outlets within the same bank. Through these objects, administrators can ensure balanced power distribution, prevent overloads, and implement efficient power scheduling.

Collectively, these objects form part of the control framework that supports real-time power management, automated responses to power events, and coordinated operation across the entire PDU.

- `control`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2`
Access	Not-accessible
Description	Root node for control-related objects. It contains subtrees for device, outlet, and bank management, defining the structure for real-time power control, scheduling, and environmental coordination within the PDU.

bank

The bank node defines the SNMP objects related to bank-level monitoring and control. It contains tables and entries for bank values, configurations, breaker status, and control operations.

These objects enable the management system to monitor aggregated power usage, configure protection thresholds, and perform control actions that affect all outlets within the same bank. They collectively support load balancing, fault isolation, and coordinated power scheduling across the PDU.

- `bank`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3`
Syntax	N/A (branch)
Access	Not-accessible
Description	Collection of bank-related control and monitoring objects. ◆ Includes tables for bank values, configuration settings, breaker status, and control operations. ◆ Serves as the control subtree for managing bank-level behavior and coordinating outlet groups within the PDU.

breakerStatusTable

- `breakerStatusTable`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.1`
Syntax	SEQUENCE OF BreakerStatusEntry
Access	Not-accessible
Indexes	`breakerStatusIndex`
Description	Represents the table that stores the circuit breaker status entries for all banks. ◆ Provides data on whether a breaker is active, tripped, or recovering. ◆ Serves as the parent table for breaker status monitoring in power protection management.

breakerStatusEntry

Represents an individual breaker entry that provides indexed information for monitoring the operational and protection status of each circuit breaker in a power bank.

Each entry identifies a specific breaker and reports its current state, allowing the system to track protection responses and bank-level circuit conditions.

- `breakerStatusEntry`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.1.1`
Syntax	BreakerStatusEntry
Access	Not-accessible
Indexes	`breakerStatusIndex`
Description	Represents a single entry within the `breakerStatusTable`. Each entry corresponds to one breaker and reports its operational status and protection state for real-time monitoring and power safety control.

breakerStatusIndex

OID	1.3.6.1.4.1.21317.1.3.2.2.3.1.1.1
Syntax	INTEGER (1..30)
Access	Read-only
Status	Current
Description	An index value that uniquely identifies each breaker entry within the breakerStatusTable. Each index corresponds to one circuit breaker in the power bank and is used to retrieve its protection and operational status data.

breakerStatus

OID	1.3.6.1.4.1.21317.1.3.2.2.3.1.1.2
Syntax	INTEGER { off(1), on(2), not-support(3) }
Access	Read-only
Description	Indicates the current operational state of the circuit breaker. ◆ 1 (off): The breaker is open and power delivery is interrupted. ◆ 2 (on): The breaker is closed and power delivery is active. ◆ 3 (not-support): The device does not support this OID.

bankValueTable

- bankValueTable

OID	1.3.6.1.4.1.21317.1.3.2.2.3.2
Syntax	SEQUENCE OF BankValueEntry
Access	Not-accessible
Indexes	bankValueIndex
Description	Represents the table that stores electrical measurement entries for each power bank. ◆ Provides indexed data on current, voltage, power, and related electrical values for real-time monitoring. ◆ Serves as the parent table for bank-level energy management and load analysis.

bankValueEntry

Represents an individual bank entry that provides indexed information for monitoring the electrical parameters and load conditions of each power bank.

Each entry corresponds to a specific bank and reports its current, voltage, power, and related measurement data, enabling the system to analyze real-time energy usage and load balance.

- bankValueEntry

OID	1.3.6.1.4.1.21317.1.3.2.2.3.2.1
Syntax	BankValueEntry
Access	Not-accessible
Indexes	bankValueIndex
Description	Represents a single entry within the bankValueTable. Each entry corresponds to one power bank and reports its electrical measurement and operational data for monitoring and energy management purposes.

bankValueIndex

OID	1.3.6.1.4.1.21317.1.3.2.2.3.2.1.1
Syntax	INTEGER (1..30)
Access	Read-only
Status	Current
Description	An index value that uniquely identifies each bank entry within the bankValueTable. Each index corresponds to one physical power bank on the PDU and is used to retrieve its electrical measurement and operational data.

bankCurrent

OID	1.3.6.1.4.1.21317.1.3.2.2.3.2.1.2
Syntax	DisplayString
Access	Read-only
Description	Displays the measured electric current of the power bank in amperes (A). The value reflects the bank's real-time load condition. ◆ Returns N/A if the measurement is unavailable. ◆ Returns not-support if the device does not implement this OID.

bankVoltage

OID	1.3.6.1.4.1.21317.1.3.2.2.3.2.1.3
Syntax	DisplayString
Access	Read-only
Description	Displays the measured voltage of the power bank in volts (V). The value represents the bank's real-time electrical potential relative to its reference voltage. ◆ Returns N/A if the measurement is unavailable. ◆ Returns not-support if the device does not implement this OID.

bankPower

OID	1.3.6.1.4.1.21317.1.3.2.2.3.2.1.4
Syntax	DisplayString
Access	Read-only
Description	Displays the total active power of the power bank in watts (W). The value represents the bank's real-time power consumption derived from its voltage and current readings. ◆ Returns N/A if the measurement is unavailable. ◆ Returns not-support if the device does not implement this OID.

bankPowerDissipation

OID	1.3.6.1.4.1.21317.1.3.2.2.3.2.1.5
Syntax	DisplayString
Access	Read-only
Description	Displays the total power dissipation of the power bank in watts (W). The value represents the amount of electrical energy converted into heat within the bank during operation. ◆ Returns N/A if the measurement is unavailable. ◆ Returns not-support if the device does not implement this OID.

bankMaxCurrent

OID	1.3.6.1.4.1.21317.1.3.2.2.3.2.1.6
Syntax	INTEGER
Access	Read-only
Description	Displays the maximum allowable current of the power bank in amperes (A). This value represents the upper current limit defined for the bank's operating range. ◆ Typical range for EC1000 models: 0A–320A.

bankAttachStatus

OID	1.3.6.1.4.1.21317.1.3.2.2.3.2.1.7
Syntax	INTEGER { notAttached(1), attached(2), error(3), notExisted(4) }
Access	Read-only
Description	Indicates the attachment status of the energy sensor bank. The value reflects whether the bank's external energy sensor is properly connected and recognized by the system. ◆ 1 (notAttached): The energy sensor is not connected. ◆ 2 (attached): The energy sensor is connected and active. ◆ 3 (error): An error occurred in communication or detection. ◆ 4 (notExisted): The specified sensor bank does not exist.

bankPowerFactor

OID	1.3.6.1.4.1.21317.1.3.2.2.3.2.1.8
Syntax	DisplayString
Access	Read-only
Description	Displays the power factor value of the power bank. The power factor indicates the ratio between real power and apparent power, reflecting the efficiency of power usage within the bank. ◆ Returns `not-support` if the device does not implement this OID.

bankConfigTable

- bankConfigTable

OID	1.3.6.1.4.1.21317.1.3.2.2.3.3
Syntax	SEQUENCE OF BankConfigEntry
Access	Not-accessible
Indexes	bankConfigIndex
Description	Represents the table that contains configuration entries for all power banks. ◆ Stores parameter limits for current, voltage, and power. ◆ Enables threshold-based monitoring and alarm configuration at the bank level. ◆ Serves as the parent table for defining each bank's electrical settings and measurement range.

bankConfigEntry

Represents an individual configuration entry that defines threshold parameters and operational settings for each power bank.

Each entry corresponds to a specific bank and provides the measurement limits for monitoring current, voltage, and power conditions.

- bankConfigEntry

OID	1.3.6.1.4.1.21317.1.3.2.2.3.3.1
Syntax	BankConfigEntry
Access	Not-accessible
Indexes	bankConfigIndex
Description	Represents a single configuration entry within the bankConfigTable. Each entry defines the allowable range and threshold parameters for one power bank, enabling the system to perform accurate status evaluation and over-limit protection at the bank level.

bankConfigIndex

OID	1.3.6.1.4.1.21317.1.3.2.2.3.3.1.1
Syntax	INTEGER (1..30)
Access	Read-only
Status	Current
Description	An index that defines the position of each bank configuration entry within the bankConfigTable. Each value represents one power bank and serves as a reference for accessing its corresponding configuration attributes.

bankName

OID	1.3.6.1.4.1.21317.1.3.2.2.3.3.1.2
Syntax	DisplayString
Access	Read-write
Description	Displays or sets the name assigned to each power bank. ◆ Returns N/A when this OID is unsupported by the device. ◆ Accepts string length from 0–15 characters. ◆ Input the literal string /empty to reset the bank name to NULL **Note:** The /empty is recognized by the SNMP agent as a reset command, not as an empty string ("") .

bankMinCurMT

OID	1.3.6.1.4.1.21317.1.3.2.2.3.3.1.3
Syntax	INTEGER
Access	Read-write
Description	Defines the minimum current threshold for the power bank. ◆ Valid range: 0.0–16.0 (represents 0–160). ◆ The minimum threshold must be lower than the configured maximum threshold. ◆ Empty value: –3000. ◆ Unsupported OID: –2000000.

bankMaxCurMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.3.3.1.4
Syntax	INTEGER
Access	Read-write
Description	Defines the maximum current threshold for the power bank. ◆ Valid range: 0.0–16.0 (represents 0–160). ◆ The maximum threshold must be higher than the configured minimum threshold. ◆ Empty value: –3000. ◆ Unsupported OID: –2000000.

bankMinVolMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.3.3.1.5
Syntax	INTEGER (900..2600 | –3000 | –2000000)
Access	Read-write
Description	Specifies the minimum voltage threshold for the bank's electrical measurement. ◆ Valid range: 90.0–260.0 (represents 900–2600). ◆ The minimum threshold must be lower than the configured maximum threshold. ◆ Empty value: –3000. ◆ Unsupported OID: –2000000.

bankMaxVolMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.3.3.1.6
Syntax	INTEGER (900..2600 | –3000 | –2000000)
Access	Read-write
Description	Specifies the maximum voltage threshold for the bank's electrical measurement. ◆ Valid range: 90.0–260.0 (represents 900–2600). ◆ The maximum threshold must be higher than the configured minimum threshold. ◆ Empty value: –3000. ◆ Unsupported OID: –2000000.

bankMinPMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.3.3.1.7
Syntax	INTEGER (0..99999 | –3000 | –2000000)
Access	Read-write
Description	Specifies the minimum power threshold for the bank's electrical measurement. ◆ Valid range: 0.0–9999.9 (represents 0–99999). ◆ The minimum threshold must be lower than the configured maximum threshold. ◆ Empty value: –3000. ◆ Unsupported OID: –2000000.

bankMaxPMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.3.3.1.8
Syntax	INTEGER (0..99999 | –3000 | –2000000)
Access	Read-write
Description	Specifies the maximum power threshold for the bank's electrical measurement. ◆ Valid range: 0.0–9999.9 (represents 0–99999). ◆ The maximum threshold must be higher than the configured minimum threshold. ◆ Empty value: –3000. ◆ Unsupported OID: –2000000.

bankMaxPDMT

OID	1.3.6.1.4.1.21317.1.3.2.2.2.3.3.1.9
Syntax	INTEGER (0..99999 | –3000 | –2000000)
Access	Read-write
Description	Specifies the maximum power dissipation threshold for the bank's electrical measurement. ◆ Valid range: 0.0–9999.9 (represents 0–99999). ◆ The maximum threshold must be higher than the configured minimum threshold. ◆ Empty value: –3000. ◆ Unsupported OID: –2000000.

bankControlTable

- `bankControlTable`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.3.4`
Syntax	SEQUENCE OF BankValueEntry
Access	Not-accessible
Indexes	`bankControlIndex`
Description	Represents the table that contains all control entries for power banks. ◆ Provides indexed access to bank-level control functions such as power on, power off, and reboot. ◆ Serves as the parent table for managing outlet control at the bank level.

bankControlEntry

Represents an indexed control entry that defines the operational commands for each power bank on the PDU.

Each entry corresponds to a specific bank and provides the control interface for switching, rebooting, or status handling.

- `bankControlEntry`

OID	`1.3.6.1.4.1.21317.1.3.2.2.2.3.4.1`
Syntax	BankControlEntry
Access	Not-accessible
Indexes	`bankControlIndex`
Description	Represents a single control entry within the `bankControlTable`. Each entry defines the control attributes for one power bank, allowing the system to manage its outlet control actions such as turning on, turning off, or rebooting the bank.

bankControlIndex

OID	1.3.6.1.4.1.21317.1.3.2.2.2.3.4.1.1
Syntax	INTEGER (1..4)
Access	Read-only
Status	Current
Description	An index value that identifies each controllable power bank on the PDU. Each index corresponds to one physical power bank and is used to perform outlet control and retrieve its operational status.

bankControlStatus

OID	1.3.6.1.4.1.21317.1.3.2.2.2.3.4.1.2
Syntax	INTEGER {off(1), on(2), reboot(3), nostatus(4), not-support(5)}
Access	Read-write
Description	Controls or reports the power control state of the bank as a group. ◆ Writing a value issues a control action to all outlets in the bank: ◆ 1 (off): Turn off power to all outlets in the bank. ◆ 2 (on): Turn on power to all outlets in the bank. ◆ 3 (reboot): Power-cycle all outlets in the bank (off, then on). ◆ Reading this object returns the bank's current control state: ◆ 4 (nostatus): No active control state is available for the bank. ◆ 5 (error): This OID is not supported on the device.

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Chapter 6
Device Configuration Objects

Overview

The Device Management subtree of the ATEN-PE-CFG MIB defines objects used to manage general device configurations within the PDU. These objects cover essential management functions such as device identification, firmware version, network settings, date and time configuration, event notification, and service port control. They enable administrators to configure operational parameters and maintain consistent system behavior across networked PDUs.

The Device Configuration Objects under this subtree focus on adjustable parameters that define the PDU's identity and connectivity in a managed network. Through these objects, users can retrieve or modify device-specific information— including MAC and IPv4 settings, firmware versions, and other operational configurations—to ensure reliable communication, synchronization, and performance monitoring.

Collectively, these objects form the foundation of the system management hierarchy. They support centralized configuration, simplify maintenance operations, and provide a structured interface for integration with SNMP-based monitoring systems.

- `deviceManagement`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3`
Access	Not-accessible
Description	Root node for device-related management objects. It contains subtrees for configuration and security, defining the overall framework for device settings, firmware information, network configuration, and operational parameters within the PDU.

config

The `config` node defines the SNMP objects related to general device configuration and system information management.

It contains subtrees and entries for device identity, firmware details, network setup, time configuration, and service management.

These objects allow administrators to retrieve and modify essential configuration data to maintain reliable operation and consistent communication across the PDU network.

Through the `config` subtree, users can perform centralized configuration tasks such as updating firmware information, setting network parameters, adjusting event notification options, and synchronizing date and time. This ensures accurate device identification, stable connectivity, and proper integration with network management systems.

- `config`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4`
Syntax	N/A (branch)
Access	Not-accessible
Description	Collection of configuration-related management objects. ◆ Includes subtrees for device MAC, IPv4 settings, firmware version, event notifications, and time configuration. ◆ Serves as the management root for retrieving and updating core system settings within the PDU.

deviceMAC

Each object under the `config` subtree provides attributes that describe the PDU's device information and communication settings.

The `deviceMAC` object identifies the unique hardware address assigned to the device, used for Ethernet-level communication and network identification.

- `deviceMAC`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.1`
Syntax	DisplayString
Access	Read-only
Status	Current
Description	Displays the device's MAC address, which uniquely identifies the unit on a local network. This value is hardware-defined and cannot be modified through software configuration.

deviceIPv4

Each object under the config subtree provides essential identifiers and parameters for network and system communication.

The `deviceIPv4` object specifies the device's IPv4 address used for network management and data exchange within the PDU system.

- `deviceIPv4`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.2`
Syntax	IPAddress
Access	Read-only
Status	Current
Description	Displays the IPv4 address currently assigned to the device. This address identifies the unit within the network and enables SNMP and web-based management access.

deviceFWversion

Each object under the config subtree provides system-level information that supports monitoring and management of the PDU device.

The `deviceFWversion` object specifies the current firmware version installed on the device, allowing administrators to verify compatibility, maintenance status, and feature updates.

- `deviceFWversion`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.3`
Syntax	DisplayString
Access	Read-only
Status	Current
Description	Displays the firmware version of the device. This information is used for identifying the software build currently running on the unit and ensuring alignment with supported system releases.

dashBoard

The `dashBoard` subtree defines the SNMP objects related to the PDU's front-panel or monitoring interface layout. It provides identifiers for the dashboard structure, such as row and column definitions, and the rack name associated with each display segment.

Through these objects, management systems can interpret how device data and status information are arranged on the monitored interface.

- `dashBoard`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.4`
Syntax	N/A (branch)
Access	Not-accessible
Description	Collection of dashboard-related objects used to define the layout and identification of monitored interface elements. Includes entries for row, column, and rack name mappings that represent the device's dashboard configuration.

`dashboardRow`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.4.1`
Syntax	INTEGER (1..26)
Access	Read-write
Status	Current
Description	Defines the row number used in the device's dashboard layout. Each value represents a specific horizontal position within the displayed grid. This index is used to organize monitored parameters or identifiers in structured rows, enabling consistent visualization of system data across the PDU's dashboard interface.

dashboardColumn

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.4.2
Syntax	INTEGER (1..26)
Access	Read-write
Description	Defines the column number used in the device's dashboard layout. Each value represents a specific vertical position within the displayed grid. This index works in conjunction with the dashboardRow object to organize monitored parameters by grid position, providing a clear and consistent visual structure for system data representation.

dashboardRackName

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.4.3
Syntax	DisplayString
Access	Read-write
Description	Specifies the device's dashboard rack name. ◆ Valid string length: 1 to 32. ◆ Input the literal string /empty to reset this object to NULL. **Note:** The /empty value is a predefined keyword recognized by the SNMP agent. It functions as a reset command and is not equivalent to an empty string (""").

servicePorts

The `servicePorts` subtree defines the SNMP objects related to the PDU's network service port configuration. It specifies parameters for HTTP and HTTPS communication and includes control options for enabling HTTPS-only access.

Through these objects, administrators can configure how management interfaces are accessed over the network.

- `servicePorts`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.5`
Syntax	N/A (branch)
Access	Not-accessible
Description	Defines a collection of configuration objects for network service ports. This subtree contains parameters for setting the HTTP and HTTPS port numbers, and an option to enable HTTPS-only access.These settings determine how the PDU's web-based management interface is accessed and secured.

`httpPort`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.5.1`
Syntax	INTEGER (1..65535)
Access	Read-write
Status	Current
Description	Specifies the HTTP port number used by the PE device for web access. This setting allows administrators to change or confirm the listening port for non-secure web connections. Changing this value updates the port that must be used when accessing the device through HTTP.

`httpsPort`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.5.2`
Syntax	INTEGER (1..65535)
Access	Read-write
Description	Specifies the HTTPS port number used by the PE device for secure web access. This setting defines the port for encrypted communication via HTTPS and can be modified according to network security policies. Changing this value updates the port that must be used when accessing the device through HTTPS.

`httpsOnlyEnable`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.5.3`
Syntax	INTEGER { yes(1), no(2) }
Access	Read-write
Description	Enables or disables HTTPS-only access for the PE device. This option ensures flexible control over web interface security. ◆ `1` (yes): only HTTPS connections are allowed and HTTP access is blocked. ◆ `2` (no): both HTTP and HTTPS connections are available.

ipv4config

The `ipv4config` subtree defines the SNMP objects related to the PDU's IPv4 network configuration. It provides parameters for enabling static IP mode, assigning IPv4 addresses, and defining essential network settings such as subnet mask, gateway, and DNS servers.

Through these objects, administrators can configure how the PDU connects to and communicates within an IPv4 network environment.

- `ipv4config`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.6`
Syntax	N/A (branch)
Access	Not-accessible
Description	Defines a collection of SNMP configuration objects for managing the device's IPv4 network parameters. This subtree includes settings for enabling or disabling static IP mode, specifying the device's IPv4 address, subnet mask, and default gateway, and configuring both primary and secondary DNS servers. These parameters determine the device's basic network connectivity and address resolution behavior within an IPv4-based environment.

staticIPEnabled

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.6.1
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Enables or disables the use of a static IPv4 address for the PE device. When disabled, the device automatically obtains an IPv4 address from a DHCP server. ◆ 1 (no): The device uses DHCP to acquire an IPv4 address automatically. ◆ 2 (yes): A static IPv4 address is manually assigned through configuration parameters such as fixedIPv4, subnetMask, and gateway.

fixedIPv4

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.6.2
Syntax	IPADDRESS
Access	Read-write
Description	Specifies the static IPv4 address assigned to the PE device. This parameter is used only when static IP mode is enabled through the staticIPEnabled object.

subnetMask

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.6.3
Syntax	IPADDRESS
Access	Read-write
Description	Specifies the subnet mask for the device's IPv4 network configuration. The subnet mask defines the network and host portions of the assigned IPv4 address, enabling proper routing within the local subnet. When static IP mode is enabled, this value must be configured to ensure correct communication between the device and other nodes on the same network.

gateway

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.6.4
Syntax	IPADDRESS
Access	Read-write
Description	Specifies the default gateway IPv4 address for the PE device. The gateway serves as the routing point used to forward packets from the local subnet to other networks or remote devices. When static IP mode is enabled, this parameter must be set correctly to ensure external communication beyond the local network segment.

staticDNSEnabled

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.6.5
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls whether the DNS server addresses for the PE device are assigned automatically or configured manually. ◆ 1 (no): The device obtains DNS server addresses automatically, typically from a DHCP server. ◆ 2 (yes): DNS server addresses are manually configured using parameters such as dnsPreferIPv4 and dnsAlternateIPv4.

dnsPreferIPv4

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.6.6
Syntax	IPADDRESS
Access	Read-write
Description	Specifies the primary DNS server address used by the PE device. This value defines the preferred IPv4 DNS server that the system queries first when resolving domain names. ◆ When static DNS mode is enabled (staticDNSEnabled is set to **2**), this address must be manually assigned to ensure correct name resolution. ◆ If DHCP DNS is used (staticDNSEnabled is set to **1**), this value may be ignored depending on the network configuration.

dnsAlternateIPv4

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.6.7
Syntax	IPADDRESS
Access	Read-write
Description	Specifies the alternate (secondary) DNS server address used by the PE device. This value is applied when static DNS mode is enabled through the staticDNSEnabled object.

eventNotification

The `eventNotification` subtree defines the SNMP objects used to control how the PDU reports important system events. It provides parameters for enabling individual notification channels, specifying destination servers, and setting delivery options for each method.

Through these objects, administrators can configure how alarms and status changes are sent to management systems or external logging services, helping maintain visibility and auditability of the PDU's operation.

- `eventNotification`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.7`
Syntax	N/A (branch)
Access	Not-accessible
Description	Defines a subtree that contains SNMP configuration objects related to the device's event notification settings. This branch organizes parameters for enabling and configuring notification mechanisms, including SNMP traps, Syslog, and SMTP, which report system events or status changes. These objects help administrators manage how the device reports operational conditions, enabling timely monitoring and integration with external network management systems.

devicesnmp

- devicesnmp

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.1
Syntax	N/A (branch)
Access	Not-accessible
Description	Represents the root node for SNMP trap–related configuration. This branch groups all objects used for enabling traps, specifying the trap version, and managing the SNMP trap table, including receiver information, port settings, community strings, and authentication credentials.

trapEnabled

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.1.1
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls whether this SNMP trap entry is enabled. ◆ 1 (no): The trap entry is disabled. No trap notifications will be sent for this receiver. ◆ 2 (yes): The trap entry is disabled. No trap notifications will be sent for this receiver. ◆ For SNMPv3: configure trapUsername, trapAuthpassword, and trapPrivpassword first. ◆ For SNMPv1/v2c: configure the trapCommunity string first.

trapVersion

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.1.2
Syntax	INTEGER { v1(1), v2c(2), v3(3) }
Access	Read-write
Description	Specifies the SNMP Trap version used by the device when sending trap messages. ◆ 1 (v1): Uses SNMPv1 format to send traps. You must configure the community string before enabling trap delivery. ◆ 2 (v2c): Uses SNMPv2c format to send traps. The community string must be set beforehand. ◆ 3 (v3): Uses SNMPv3 security model for sending traps. Before enabling v3 traps, you must configure the username, auth-password, and priv-password.

snmpTrapTable

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.1.3
Syntax	SEQUENCE OF SnmpTrapEntry
Access	Not-accessible
Indexes	trapReceiverNumber
Description	Defines the table that stores all SNMP trap receiver entries for the PE device. Each row (indexed by trapReceiverNumber) represents one configured receiver and contains the parameters required for sending SNMP traps.

- **snmpTrapEntry**

Each entry defines the parameters for a specific SNMP trap receiver, indexed by `trapReceiverNumber`.

- `snmpTrapEntry`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.7.1.3.1`
Syntax	SnmpTrapEntry
Access	Not-accessible
Indexes	`trapReceiverNumber`
Description	Represents a single trap-receiver entry within the `snmpTrapTable`. Each entry stores the settings for one receiver, including destination IP, port, community or SNMPv3 credentials required for sending traps.

- `trapReceiverNumber`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.7.1.3.1.1`
Syntax	INTEGER (1..2)
Access	Read-only
Indexes	`trapReceiverNumber`
Status	Current
Description	Identifies each trap receiver entry in the `snmpTrapTable`. This index is used to select which receiver's configuration is being referenced, including settings such as IP address, port, and authentication information.

- `trapReceiverIPAddress`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.7.1.3.1.2`
Syntax	IPADDRESS
Access	Read-write
Indexes	`trapReceiverNumber`
Description	Specifies the IP address of the trap receiver for this entry. The PDU sends SNMP trap messages to this address when events occur.

- `trapPort`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.7.1.3.1.3`
Syntax	INTEGER (1..65535)
Access	Read-write
Indexes	`trapReceiverNumber`
Description	Specifies the UDP port number used to deliver SNMP trap messages for this entry. The PDU sends trap notifications to the configured port when events occur.

- `trapCommunity`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.7.1.3.1.4`
Syntax	DisplayString (SIZE 0..20)
Access	Read-write
Indexes	`trapReceiverNumber`
Description	Specifies the SNMP community string used for sending traps when SNMPv1/v2c is selected. ◆ Accepts string length from 0 to 20 characters. ◆ Input the literal string `/empty` to reset the community string to NULL. **Note:** The `/empty` is recognized by the SNMP agent as a reset command, not as an empty string `("")`.

- `trapUsername`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.7.1.3.1.5`
Syntax	DisplayString (SIZE 0..20)
Access	Read-write
Indexes	`trapReceiverNumber`
Description	Specifies the SNMPv3 user name used by the device when sending trap messages to this receiver. The user name must match the credentials configured on the NMS. ◆ Accepts string length from 0 to 20 characters. ◆ Input the literal string `/empty` to reset this value to NULL. **Note:** ◆ The `/empty` is recognized by the SNMP agent as a reset command, not as an empty string(" "). ◆ NMS (Network Management System) is a platform that receives SNMP traps, monitors device status, and manages network equipment.

- `trapAuthpassword`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.7.1.3.1.6`
Syntax	DisplayString (SIZE 8..20)
Access	Read-write
Indexes	`trapReceiverNumber`
Description	Specifies the SNMPv3 authentication password used when sending trap messages to this receiver. ◆ Accepts string length from 8 to 20 characters. ◆ Input the literal string `/empty` to reset this value to NULL. **Note:** The `/empty` is recognized by the SNMP agent as a reset command, not as an empty string `("")`.

- `trapPrivpassword`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.7.1.3.1.7`
Syntax	DisplayString (SIZE 8..20)
Access	Read-write
Indexes	`trapReceiverNumber`
Description	Specifies the SNMPv3 privacy password used when sending trap messages to this receiver. ◆ Accepts string length from 8 to 20 characters. ◆ The password must match the privacy credentials configured on the NMS. ◆ Input the literal string `/empty` to reset this value to NULL. **Note:** ◆ The `/empty` is recognized by the SNMP agent as a reset command, not as an empty string("""). ◆ NMS (Network Management System) is a platform that receives SNMP traps, monitors device status, and manages network equipment.

syslog

- syslog

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.2
Syntax	N/A (branch)
Access	Not-accessible
Description	Represents the root node for Syslog-related configuration. This branch groups all objects used for enabling Syslog reporting, specifying the Syslog server address, and setting the server port for receiving system log messages.

sysLogServerEnabled

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.2.1
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls whether the syslog server setting is enabled. ◆ 1 (no): The syslog server is disabled. No syslog messages will be sent. ◆ 2 (yes): The syslog server is enabled. Syslog messages will be sent to the configured IPv4 address and port.

sysLogServerIPv4

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.2.2
Syntax	IPADDRESS
Access	Read-write
Description	Specifies the IPv4 address of the syslog server used to receive system log messages.

sysLogServerEnabled

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.2.1
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls whether the syslog server setting is enabled. ◆ 1 (no): The syslog server is disabled. No syslog messages will be sent. ◆ 2 (yes): The syslog server is enabled. Syslog messages will be sent to the configured IPv4 address and port.

sysLogServerPort

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.2.3
Syntax	INTEGER (1..65535)
Access	Read-write
Description	Specifies the port number of the syslog server. Accepts values from 1 to 65535. The PDU sends syslog message to this port when syslog is enabled.

smtp

- smtp

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.3
Syntax	N/A (branch)
Access	Not-accessible
Description	Provides the root node for SMTP-related configuration. This branch groups all SMTP settings, including enabling the SMTP server, specifying server address and port, and configuring authentication and email sender/receiver information.

smtpServerEnabled

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.3.1
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls whether the SMTP server is enabled. ◆ 1 (no): The SMTP server is disabled. Email notifications will not be sent. ◆ 2 (yes): The SMTP server is enabled. The device will send notification emails through the configured SMTP server.

smtpServerName

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.3.2
Syntax	DisplayString
Access	Read-write
Description	Specifies the host name or address of the SMTP server. ◆ Input the literal string /empty to reset this value to NULL. **Note:** The /empty is recognized by the SNMP agent as a reset command, not as an empty string ("") .

smtpAuthEnabled

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.3.3
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls whether SMTP authentication is required when sending email notifications. ◆ 1 (no): Authentication is disabled. The SMTP server will be accessed without login credentials. ◆ 2 (yes): Authentication is enabled. The SMTP server requires a valid account name and password before sending notifications.

smtpAccountName

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.3.4
Syntax	DisplayString
Access	Read-write
Description	Specifies the user account name used for SMTP authentication. ◆ Input the literal string /empty to reset this object to NULL. **Note:** The /empty is recognized by the SNMP agent as a reset command, not as an empty string ("") .

smtpAccountPwd

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.3.5
Syntax	DisplayString
Access	Read-write
Description	Specifies the user account password used for SMTP authentication. ◆ Input the literal string /empty to reset this object to NULL. **Note:** The /empty is recognized by the SNMP agent as a reset command, not as an empty string ("") .

smtpMailFrom

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.3.6
Syntax	DisplayString
Access	Read-write
Description	Specifies the From email address used by the SMTP server when sending email notifications. ◆ Accepts a valid email address string ◆ Input the literal string /empty to reset this value to NULL. **Note:** The /empty is recognized by the SNMP agent as a reset command, not as an empty string ("") .

smtpMailTo

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.3.7
Syntax	DisplayString
Access	Read-write
Description	Specifies the recipient email address used by the SMTP server when sending email notifications. ◆ Enter the literal string /empty to reset this value to NULL. **Note:** The /empty is recognized by the SNMP agent as a reset command, not as an empty string ("") .

smtpPort

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.3.8
Syntax	INTEGER (1..65535)
Access	Read-write
Description	Specifies the port number of the SMTP server.

configurationNotification

- configurationNotification

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.9
Syntax	N/A (branch)
Access	Not-accessible
Description	Provides the root node for configuration-change notification settings. This branch groups all objects related to sending notification messages when the device configuration is modified, including enabling or disabling configuration notifications and defining the trap message content.

configurationNotifyEnabled

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.9.1
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls whether configuration-change notifications are enabled. ◆ 1 (no): Configuration change notifications are disabled. No trap message will be sent when the device configuration is modified. ◆ 2 (yes): Configuration change notifications are enabled. The device will send a trap message whenever its configuration is modified.

configurationNotifyTrapMSG

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.7.9.2
Syntax	DisplayString
Access	Read-write
Description	Specifies the custom trap message used for configuration-change notifications.

dateTime

The `dateTime` subtree defines the SNMP objects used to configure the device's system time. It organizes all parameters related to timezone selection, daylight saving time (DST), manual date/time input, and network time synchronization (NTP).

Through these objects, administrators can ensure that the device maintains an accurate timestamp for system logs, event reporting, and time-based automation.

- `dateTime`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.8`
Syntax	N/A (branch)
Access	Not-accessible
Description	Represents the root node for system time settings. This branch groups all objects for timezone configuration, DST enablement, manual date/time input, and NTP synchronization settings.

timeZone

- `timeZone`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.8.1`
Syntax	N/A (branch)
Access	Not-accessible
Description	Represents the root node for the device's time zone configuration. This branch organizes all objects used for setting the system time zone and adjusting daylight saving behavior. It includes parameters for selecting a time zone, enabling or disabling DST, and configuring manual or network-based time synchronization.

`timeZoneSetting`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.8.1.1`
Syntax	INTEGER
Access	Read-write
Description	Controls the time zone setting of the PE device. The value corresponds to a predefined GMT offset entry. Administrators can select the appropriate time zone by writing the associated index value. ◆ **0** : [GMT-12:00] Eniwetok, Kwajalein ◆ **1** : [GMT-11:00] Midway Island, Samoa ◆ **2** : [GMT-10:00] Hawaii ◆ **3** : [GMT-09:00] Alaska ◆ **4** : [GMT-08:00] Pacific Time (US & Canada), Tijuana ◆ **5** : [GMT-07:00] Mountain Time (US & Canada) ◆ **6** : [GMT-07:00] Arizona ◆ **7** : [GMT-06:00] Central Time (US & Canada) ◆ **8** : [GMT-06:00] Mexico City ◆ **9** : [GMT-06:00] Saskatchewan ◆ **10** : [GMT-06:00] Central America ◆ **11** : [GMT-05:00] Eastern Time (US & Canada) ◆ **12** : [GMT-05:00] Indiana (East) ◆ **13** : [GMT-05:00] Bogota, Lima, Quito ◆ **14** : [GMT-04:00] Atlantic Time (Canada) ◆ **15** : [GMT-04:00] Caracas, La Paz ◆ **16** : [GMT-04:00] Santiago ◆ **17** : [GMT-03:30] Newfoundland ◆ **18** : [GMT-03:00] Buenos Aires, Georgetown ◆ **19** : [GMT-03:00] Brasilia ◆ **20** : [GMT-03:00] Greenland ◆ **21** : [GMT-02:00] Mid-Atlantic ◆ **22** : [GMT-01:00] Azores ◆ **23** : [GMT-01:00] Cape Verde Islands ◆ **24** : [GMT] Casablanca, Monrovia ◆ **25** : [GMT] Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London *(Continues on next page.)*

Description	*(Continued from previous page.)* ◆ **26** : [GMT+01:00] Amsterdam, Copenhagen, Madrid, Paris, Vilnius ◆ **27** : [GMT+01:00] West Central Africa ◆ **28** : [GMT+01:00] Belgrade, Sarajevo, Skopje, Sofija, Zagreb ◆ **29** : [GMT+01:00] Bratislava, Budapest, Ljubljana, Prague, Warsaw ◆ **30** : [GMT+01:00] Brussels, Berlin, Bern, Rome, Stockholm, Vienna ◆ **31** : [GMT+02:00] Cairo ◆ **32** : [GMT+02:00] Harare, Pretoria ◆ **33** : [GMT+02:00] Jerusalem ◆ **34** : [GMT+02:00] Bucharest ◆ **35** : [GMT+02:00] Helsinki, Riga, Tallinn ◆ **36** : [GMT+02:00] Athens, Istanbul, Minsk ◆ **37** : [GMT+03:00] Kuwait, Riyadh ◆ **38** : [GMT+03:00] Nairobi ◆ **39** : [GMT+03:00] Baghdad ◆ **40** : [GMT+03:00] Moscow, St. Petersburg, Volgograd ◆ **41** : [GMT+03:30] Tehran ◆ **42** : [GMT+04:00] Abu Dhabi, Muscat ◆ **43** : [GMT+04:00] Baku, Tbilisi, Yerevan ◆ **44** : [GMT+04:30] Kabul ◆ **45** : [GMT+05:00] Islamabad, Karachi, Tashkent ◆ **46** : [GMT+05:00] Ekaterinburg ◆ **47** : [GMT+05:30] Calcutta, Chennai, Mumbai, New Delhi ◆ **48** : [GMT+05:45] Kathmandu ◆ **49** : [GMT+06:00] Astana, Dhaka ◆ **50** : [GMT+06:00] Sri Jayawardenepura ◆ **51** : [GMT+06:00] Almaty, Novosibirsk ◆ **52** : [GMT+06:30] Rangoon ◆ **53** : [GMT+07:00] Bangkok, Hanoi, Jakarta ◆ **54** : [GMT+07:00] Krasnoyarsk ◆ **55** : [GMT+08:00] Beijing, Chongqing, Hong Kong, Urumqi *(Continues on next page.)*

Description	*(Continued from previous page.)* ◆ **56** : [GMT+08:00] Perth ◆ **57** : [GMT+08:00] Kuala Lumpur, Singapore ◆ **58** : [GMT+08:00] Taipei ◆ **59** : [GMT+08:00] Irkutsk, Ulaanbaatar ◆ **60** : [GMT+09:00] Osaka, Sapporo, Tokyo ◆ **61** : [GMT+09:00] Seoul ◆ **62** : [GMT+09:00] Yakutsk ◆ **63** : [GMT+09:30] Darwin ◆ **64** : [GMT+09:30] Adelaide ◆ **65** : [GMT+10:00] Canberra, Melbourne, Sydney ◆ **66** : [GMT+10:00] Brisbane ◆ **67** : [GMT+10:00] Guam, Port Moresby ◆ **68** : [GMT+10:00] Hobart ◆ **69** : [GMT+10:00] Vladivostok ◆ **70** : [GMT+11:00] Magadan, Solomon Islands, New Caledonia ◆ **71** : [GMT+12:00] Fiji, Kamchatka, Marshall Islands ◆ **72** : [GMT+12:00] Auckland, Wellington ◆ **73** : [GMT+13:00] Nuku'alofa

dstEnabled

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.8.1.2
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls whether daylight saving time (DST) is enabled for the device. ◆ 1 (no): Daylight saving time is disabled. The device keeps standard time year-round. ◆ 2 (yes): Daylight saving time is enabled. The device will automatically shift its system clock forward or backward according to the selected time zone's daylight saving rules.

manualInput

- manualInput

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.8.2
Syntax	N/A (branch)
Access	Not-accessible
Description	Represents the root node for manually configuring the device's date and time settings. This branch groups SNMP objects used for directly setting the system date and time without relying on external time sources. It includes parameters for defining the calendar date and specifying the current time, providing administrators precise control when network-based synchronization is not available or not preferred.

dateSetting

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.8.2.1
Syntax	DisplayString
Access	Read-write
Description	Displays or sets the device's system date manually. The value must follow the YYYY-MM-DD format (string length: 10). ◆ **Year**: 2000–2099 ◆ **Month**: 01–12 ◆ **Day**: 01–31 Daylight saving time is disabled. The device keeps standard time year-round. This object is used when configuring the system date without relying on network time synchronization.

timeSetting

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.8.2.2
Syntax	DisplayString
Access	Read-write
Description	Displays or sets the device's system time manually. The value must follow the HH:MM:SS format (string length: 8). ◆ **Hour**: 00–24 ◆ **Minute**: 00–60 ◆ **Second**: 00–60 This object is used when configuring the system time without relying on network-based time synchronization.

networkTime

- networkTime

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.8.3
Syntax	N/A (branch)
Access	Not-accessible
Description	Represents the root node for configuring the device's network-based time synchronization. This branch organizes SNMP objects responsible for enabling NTP-based time adjustment and defining primary and alternate NTP servers. It includes parameters for automatic time updates, selecting the preferred NTP source, and specifying server addresses and ports. Through these objects, administrators can keep the device clock synchronized with reliable external time servers, ensuring accurate timestamps for logs, notifications, and system operations.

autoAdjustEnabled

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.8.3.1
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls whether the device automatically adjusts its date and time using network time sources. ◆ 1 (no): Automatic time adjustment is disabled. The device will not update its date and time based on NTP servers and must rely on manual time configuration. ◆ 2 (yes): Automatic time adjustment is enabled. The device will periodically synchronize its system time with the configured preferred and alternate NTP servers.

preferNTP

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.8.3.2
Syntax	INTEGER
Access	Read-write
Description	Defines the preferred Network Time Protocol (NTP) server used by the device for time synchronization. Administrators can select a predefined NTP server by writing the associated index value. The available NTP server entries are listed below: ◆ **0** : AU | ntp1.cs.mu.OZ.AU ◆ **1** : AU | ntp0.cs.mu.OZ.AU ◆ **2** : BE | ntp2.oma.be ◆ **3** : BE | ntp1.oma.be ◆ **4** : BR | ntps1.pads.ufrj.br ◆ **5** : CH | swisstime.ethz.ch ◆ **6** : CL | ntp.shoa.cl ◆ **7** : CZ | ntp.nic.cz ◆ **8** : DE | ntp.stairweb.de ◆ **9** : DE | ntps1-0.cs.tu-berlin.de ◆ **10** : DE | ptbtime1.ptb.de ◆ **11** : DE | ntp1.fau.de ◆ **12** : DE | ptbtime2.ptb.de ◆ **13** : DE | time1.one4vision.de ◆ **14** : DE | rustime01.rus.uni-stuttgart.de ◆ **15** : DE | ntp.probe-networks.de ◆ **16** : DE | ntp2.fau.de ◆ **17** : ES | hora.roa.es ◆ **18** : HK | stdtime.gov.hk ◆ **19** : IE | ntp-galway.hea.net ◆ **20** : IT | ntp1.inrim.it ◆ **21** : IT | ntp2.inrim.it ◆ **22** : JP | clock.tl.fukuoka-u.ac.jp ◆ **23** : JP | ntp.nict.jp ◆ **24** : JP | clock.nc.fukuoka-u.ac.jp ◆ **25** : KR | ntp.xbsd.kr *(Continues on next page.)*

Description	*(Continued from previous page.)* ◆ **26** : MX | cronos.cenam.mx ◆ **27** : NL | ntp0.nl.uu.net ◆ **28** : NL | ntp1.nl.uu.net ◆ **29** : NL | ntp.remco.org ◆ **30** : NL | ntp0.nl.net ◆ **31** : PL | vega.cbk.poznan.pl ◆ **32** : PL | ntp.ntp-servers.com ◆ **33** : RO | ntp3.usv.ro ◆ **34** : RO | ntp2.usv.ro ◆ **35** : RU | ntp1.vniiftri.ru; ntp1.imvp.ru ◆ **36** : RU | ntp2.vniiftri.ru; ntp2.imvp.ru ◆ **37** : SE | ntp1.mmo.netnod.se ◆ **38** : SE | ntp1.sth.netnod.se ◆ **39** : SE | ntp2.mmo.netnod.se ◆ **40** : SE | ntp2.sth.netnod.se ◆ **41** : SE | time2.stupi.se ◆ **42** : SE | ntp1.sp.se ◆ **43** : SE | timehost.lysator.liu.se ◆ **44** : SI | ntp.mostovna.com ◆ **45** : US CA | timekeeper.isi.edu ◆ **46** : US CA | clock.sjc.he.net ◆ **47** : US CA | nist1.symmetricom.com ◆ **48** : US CA | clock.via.net ◆ **49** : US CA | nist1.aol-ca.truetime.com ◆ **50** : US CA | clock.isc.org ◆ **51** : US CA | clepsydra.dec.com ◆ **52** : US CA | gps.layer42.net ◆ **53** : US CA | time.no-such-agency.net ◆ **54** : US CA | nist1-sj.WiTime.net ◆ **55** : US CA | clock.fmt.he.net ◆ **56** : US CO | time-b.timefreq.bldrdoc.gov ◆ **57** : US CO | time-a.timefreq.bldrdoc.gov ◆ **58** : US CO | utcnist.colorado.edu ◆ **59** : US CO | time-c.timefreq.bldrdoc.gov ◆ **60** : US DE | rackety.udel.edu *(Continues on next page.)*

Description	*(Continued from previous page.)* ◆ **61** : US DE | mizbeaver.udel.edu ◆ **62** : US GA | nist1.columbiacountyga.gov ◆ **63** : US IL | ntp.your.org ◆ **64** : US MA | bonehed.lcs.mit.edu ◆ **65** : US MA | time.keneli.org ◆ **66** : US MA | ntp0.broad.mit.edu ◆ **67** : US MD | time-a.nist.gov ◆ **68** : US MD | time-b.nist.gov ◆ **69** : US MI | nist.netservicesgroup.com ◆ **70** : US NY | nist1-ny.WiTime.net ◆ **71** : US NY | clock.nyc.he.net ◆ **72** : US UT | time.xmission.com ◆ **73** : US VA | nist1-dc.WiTime.net ◆ **74** : US VA | nist1.aol-va.truetime.com ◆ **75** : US WA | time-nw.nist.gov ◆ **76** : FR | utp.univ-lyon1.fr ◆ **77** : FR | ntp-sop.inria.fr ◆ **78** : FR | ntp.tuxfamily.net ◆ **79** : UK | bear.zoo.bt.co.uk

`preferServerIPenable`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.8.3.3`
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Enables or disables the use of a preferred custom NTP server IP. ◆ `1` (no): The device does not use a preferred custom server IP. It will rely solely on the default NTP server settings. ◆ `2` (yes): The device uses the configured preferred custom server IP as its primary NTP server. Time synchronization requests will first be sent to this server unless fallback to alternate settings is required.

preferNTPIp

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.8.3.4
Syntax	IPADDRESS
Access	Read-write
Description	Specifies the IP address of the preferred NTP server used for time synchronization. When preferServerIPenable is set to yes (2), the device uses this IP address as its primary NTP server for obtaining the correct date and time. Reading this object returns the currently configured preferred NTP server IP address.

alternateNtpEnabled

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.8.3.5
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Enables or disables the use of an alternate NTP server for time synchronization. ◆ 1 (no): The alternate NTP server is not used. The device performs time synchronization only with the preferred NTP server (if enabled). ◆ 2 (yes): The device is allowed to use an alternate NTP server. When the preferred server is unreachable or disabled, the device will attempt to synchronize time using the configured alternate NTP server settings.

alternateNtp

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.8.3.6
Syntax	INTEGER
Access	Read-write
Description	Specifies the alternate NTP server used for time synchronization. Administrators can select a predefined alternate NTP server by writing the associated index value to this object. The available NTP server entries are listed: ◆ **0** : AU | ntp1.cs.mu.OZ.AU ◆ **1** : AU | ntp0.cs.mu.OZ.AU ◆ **2** : BE | ntp2.oma.be ◆ **3** : BE | ntp1.oma.be ◆ **4** : BR | ntps1.pads.ufrj.br ◆ **5** : CH | swisstime.ethz.ch ◆ **6** : CL | ntp.shoa.cl ◆ **7** : CZ | ntp.nic.cz ◆ **8** : DE | ntp.stairweb.de ◆ **9** : DE | ntps1-0.cs.tu-berlin.de ◆ **10** : DE | ptbtime1.ptb.de ◆ **11** : DE | ntp1.fau.de ◆ **12** : DE | ptbtime2.ptb.de ◆ **13** : DE | time1.one4vision.de ◆ **14** : DE | rustime01.rus.uni-stuttgart.de ◆ **15** : DE | ntp.probe-networks.de ◆ **16** : DE | ntp2.fau.de ◆ **17** : ES | hora.roa.es ◆ **18** : HK | stdtime.gov.hk ◆ **19** : IE | ntp-galway.hea.net ◆ **20** : IT | ntp1.inrim.it ◆ **21** : IT | ntp2.inrim.it ◆ **22** : JP | clock.tl.fukuoka-u.ac.jp ◆ **23** : JP | ntp.nict.jp ◆ **24** : JP | clock.nc.fukuoka-u.ac.jp ◆ **25** : KR | ntp.xbsd.kr *(Continues on next page.)*

Description	*(Continued from previous page.)* ◆ **26** : MX | cronos.cenam.mx ◆ **27** : NL | ntp0.nl.uu.net ◆ **28** : NL | ntp1.nl.uu.net ◆ **29** : NL | ntp.remco.org ◆ **30** : NL | ntp0.nl.net ◆ **31** : PL | vega.cbk.poznan.pl ◆ **32** : PL | ntp.ntp-servers.com ◆ **33** : RO | ntp3.usv.ro ◆ **34** : RO | ntp2.usv.ro ◆ **35** : RU | ntp1.vniiftri.ru; ntp1.imvp.ru ◆ **36** : RU | ntp2.vniiftri.ru; ntp2.imvp.ru ◆ **37** : SE | ntp1.mmo.netnod.se ◆ **38** : SE | ntp1.sth.netnod.se ◆ **39** : SE | ntp2.mmo.netnod.se ◆ **40** : SE | ntp2.sth.netnod.se ◆ **41** : SE | time2.stupi.se ◆ **42** : SE | ntp1.sp.se ◆ **43** : SE | timehost.lysator.liu.se ◆ **44** : SI | ntp.mostovna.com ◆ **45** : US CA | timekeeper.isi.edu ◆ **46** : US CA | clock.sjc.he.net ◆ **47** : US CA | nist1.symmetricom.com ◆ **48** : US CA | clock.via.net ◆ **49** : US CA | nist1.aol-ca.truetime.com ◆ **50** : US CA | clock.isc.org ◆ **51** : US CA | clepsydra.dec.com ◆ **52** : US CA | gps.layer42.net ◆ **53** : US CA | time.no-such-agency.net ◆ **54** : US CA | nist1-sj.WiTime.net ◆ **55** : US CA | clock.fmt.he.net ◆ **56** : US CO | time-b.timefreq.bldrdoc.gov ◆ **57** : US CO | time-a.timefreq.bldrdoc.gov ◆ **58** : US CO | utcnist.colorado.edu ◆ **59** : US CO | time-c.timefreq.bldrdoc.gov ◆ **60** : US DE | rackety.udel.edu *(Continues on next page.)*

Description	*(Continued from previous page.)* ◆ **61** : US DE | mizbeaver.udel.edu ◆ **62** : US GA | nist1.columbiacountyga.gov ◆ **63** : US IL | ntp.your.org ◆ **64** : US MA | bonehed.lcs.mit.edu ◆ **65** : US MA | time.keneli.org ◆ **66** : US MA | ntp0.broad.mit.edu ◆ **67** : US MD | time-a.nist.gov ◆ **68** : US MD | time-b.nist.gov ◆ **69** : US MI | nist.netservicesgroup.com ◆ **70** : US NY | nist1-ny.WiTime.net ◆ **71** : US NY | clock.nyc.he.net ◆ **72** : US UT | time.xmission.com ◆ **73** : US VA | nist1-dc.WiTime.net ◆ **74** : US VA | nist1.aol-va.truetime.com ◆ **75** : US WA | time-nw.nist.gov ◆ **76** : FR | utp.univ-lyon1.fr ◆ **77** : FR | ntp-sop.inria.fr ◆ **78** : FR | ntp.tuxfamily.net ◆ **79** : UK | bear.zoo.bt.co.uk

`alternateServerIPenable`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.4.8.3.7`
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Enables or disables the use of an alternate custom NTP server IP. ◆ `1` (no): The device does not use an alternate custom server IP. Time synchronization will rely only on the predefined alternate NTP server list. ◆ `2` (yes): The device uses the configured alternate custom server IP for time synchronization. This custom IP takes priority when alternate NTP is enabled and the preferred NTP server is unavailable.

alternateNtpIp

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.8.3.8
Syntax	IPADDRESS
Access	Read-write
Description	Specifies the IP address of the alternate custom NTP server used for time synchronization. When alternateServerIPenable is set to yes (2), the device uses this IP address as the alternate NTP server. Reading this object returns the currently configured alternate NTP server IP address.

adjustTimeEveryDays

OID	1.3.6.1.4.1.21317.1.3.2.2.3.4.8.3.9
Syntax	INTEGER
Access	Read-write
Description	Defines the synchronization interval, in days, for periodic time adjustments using the configured NTP server(s). Administrators can set how many days the device waits between scheduled NTP synchronization attempts. Reading this object returns the current time-adjustment interval.

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Chapter 7
Device Security Objects

Overview

The `deviceManagement` node represents the top-level subtree for all device-related management objects within the ATEN-PE-CFG MIB. It organizes configuration and security objects that define how the PDU identifies itself, communicates on the network, maintains system information, and protects administrative access.

This subtree contains two major branches:

- **`config`**
  Objects for device identification, firmware details, network configuration, date and time settings, event notifications, and other operational parameters.
- **`devicesecurity`**
  Objects governing authentication behavior, login protection, account policies, and access-control mechanisms.

Together, these branches provide a unified structure for managing the PDU's operational state and enforcing consistent configuration and security policies throughout the device lifecycle. They establish the foundational hierarchy that supports centralized monitoring, customization, and secure system administration across networked deployments.

- `deviceManagement`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3`
Access	Not-accessible
Description	Root node for device-related management objects. It contains subtrees for configuration and security, defining the overall framework for device settings, firmware information, network configuration, and operational parameters within the PDU.

devicesecurity

The `devicesecurity` node serves as the root for all security-related management objects within the device. It organizes settings that control login behavior, session timeout policies, account restrictions, and authentication frameworks.

Objects under this subtree allow administrators to define how users authenticate, how failed login attempts are handled, and what security rules must be applied during system access. By configuring these parameters, organizations can enforce consistent access policies and strengthen protection against unauthorized or abusive login activity.

- `devicesecurity`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.5`
Syntax	N/A (branch)
Access	Not-accessible
Description	Collection of security-related management objects that control device access and authentication behavior. This subtree includes objects for: ◆ login failure handling, allowed login times, and session timeout rules ◆ working modes and account policy enforcement ◆ login restrictions and authentication mechanisms ◆ optional RADIUS configuration for centralized access control The `devicesecurity` subtree serves as the management root for defining how users authenticate to the device, how unauthorized access is prevented, and how security policies are enforced across the PDU.

loginFailures

The `loginFailures` subtree defines SNMP objects used to monitor and control login-failure related behaviors on the device.

These objects allow administrators to configure login attempt thresholds and timeout rules to enhance access protection. By using these parameters, system managers can determine how the PDU handles repeated failed login attempts and enforce proper security responses.

- `loginFailures`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.5.1`
Syntax	N/A (branch)
Access	Not-accessible
Description	Collection of objects related to login failure handling. Includes entries that define allowed login attempts, timeout behavior, and protective mechanisms used to mitigate repeated authentication failures.

`loginAllowTimes`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.5.1.1`
Syntax	INTEGER (1..99)
Access	Read-write
Status	Current
Description	Specifies the number of allowed login attempts before triggering a login failure event or account lock policy. This value defines how many consecutive failed authentication attempts are permitted within the device's security control logic. Administrators can adjust this parameter to enforce stricter or more lenient security behavior based on operational requirements.

loginTimeOut

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.1.2
Syntax	INTEGER (1..240)
Access	Read-write
Status	Current
Description	Defines the timeout duration (in minutes) applied after the allowed number of failed login attempts is exceeded. This value determines how long a user account remains temporarily locked before another login attempt is permitted. Adjusting this parameter helps administrators enforce appropriate security policies and mitigate brute-force login attacks.

workingMode

The `workingMode` subtree defines SNMP objects related to the device's operational behavior and diagnostic responsiveness. These objects allow administrators to check whether network utilities like ICMP echo responses are enabled and how the PDU communicates with monitoring systems.

Through these settings, system managers can adjust operational characteristics that affect accessibility, health-check responsiveness, and integration with external supervision tools.

- `workingMode`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.5.2`
Syntax	N/A (branch)
Access	Not-accessible
Description	Collection of objects defining the device's operational behavior and diagnostic interaction modes. Includes entries that control features such as ICMP response capability, enabling administrators to manage how the PDU responds to network monitoring or reachability tests.

`icmpEnabled`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.5.2.1`
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls whether the device responds to ICMP echo requests. ◆ `1` (no): ICMP echo responses are disabled. Network tools or monitoring systems will not receive ping replies from the device. ◆ `2` (yes): ICMP echo responses are enabled. Monitoring tools can use ping to verify device availability and basic network connectivity.

accountPolicy

The `accountPolicy` subtree defines SNMP objects that control user account and password policy on the device. These objects allow administrators to enforce requirements such as minimum username and password length, and the use of upper-case letters, lower-case letters, and numeric characters.

By configuring these parameters, system managers can standardize account security rules across PDUs and ensure that user credentials follow the organization's password-strength and login policy guidelines.

- `accountPolicy`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.5.3`
Syntax	N/A (branch)
Access	Not-accessible
Description	Collection of objects that define the device's user account and password policy settings. Includes entries for minimum username and password length, enforcement of upper-case and lower-case characters, numeric requirements, and duplicate-login restrictions. These controls help administrators apply consistent security standards to all user accounts on the PDU.

minUserNameLen

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.3.1
Syntax	INTEGER (1..16)
Access	Read-write
Status	Current
Description	Specifies the minimum number of characters required for a user name. This parameter ensures that all user accounts meet the defined naming policy. Setting an appropriate value helps administrators enforce consistent account-format rules and strengthens overall credential hygiene.

minUserPwdLen

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.3.2
Syntax	INTEGER (1..16)
Access	Read-write
Status	Current
Description	Specifies the minimum number of characters required for a user password. Setting an appropriate value strengthens password complexity and helps enforce consistent security policy across all user accounts.

upperCaseEnabled

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.3.3
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls whether at least one uppercase character is required in a user password. ◆ 1 (no): Uppercase requirement is disabled. Users can create passwords without uppercase characters ◆ 2 (yes): Uppercase requirement is enabled. Users must include at least one uppercase character to meet the password policy.

lowerCaseEnabled

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.3.4
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls whether at least one lowercase character is required in a user password. ◆ 1 (no): Lowercase requirement is disabled. Users can create passwords without lowercase characters. ◆ 2 (yes): Lowercase requirement is enabled. Users must include at least one lowercase character to meet the password policy.

numberEnabled

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.3.5
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls whether at least one numeric character is required in a user password. ◆ 1 (no): Number requirement is disabled. Users can create passwords without numeric characters. ◆ 2 (yes): Number requirement is enabled. Users must include at least one numeric character to meet the password policy.

disableDuplicateLogin

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.3.6
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls whether the device allows the same user account to log in from multiple sessions at the same time. ◆ 1 (no): Duplicate logins are allowed. The same user account can be used concurrently across multiple sessions. ◆ 2 (yes): Duplicate logins are blocked. A user account can maintain only one active session at a time.

loginRestriction

The `loginRestriction` subtree contains objects that define login-access rules on the PDU.

These settings help administrators control where and how users can log in, ensuring that access follows the organization's security policies.

- `loginRestriction`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.5.4`
Syntax	N/A (branch)
Access	Not-accessible
Description	A branch that groups login-restriction objects, including login string, IP-based login rules, and MAC-based login rules. These controls help enforce consistent login-access policies on the PDU.

`loginString`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.5.4.1`
Syntax	DisplayString
Access	Read-write
Description	Specifies the text content of the login banner. ◆ Accepts a string up to 32 characters. ◆ Input the literal string `/empty` to reset the value to NULL. **Note:** The `/empty` is interpreted as a reset command, not an empty string (`""`).

ipFilter

- ipFilter

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.4.2
Syntax	N/A (branch)
Access	Not-accessible
Description	Defines the root node for IP-based login access control. This branch contains objects that enable the IP filter function and specify allow or deny rules using individual entries in the IP filter table.

ipFilterEnabled

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.4.2.1
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls whether IP filtering is active on the device. ◆ 1 (no): IP filtering is disabled. All hosts can access the device. ◆ 2 (yes): IP filtering is enabled. Access is permitted only for IP ranges specified in the IP filter table.

ipFilterRule

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.4.2.2
Syntax	INTEGER {include(1), exclude(2) }
Access	Read-write
Description	Controls the rule applied when IP filtering is enabled. ◆ 1 (include): Only the IP addresses listed in the IP filter table are allowed to access the device. All other IP addresses will be blocked. ◆ 2 (exclude): The IP addresses listed in the IP filter table are blocked. All other IP addresses are allowed to access the device

ipFilterTable

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.4.2.3
Syntax	SEQUENCE OF IpFilterEntry
Access	Not-accessible
Indexes	ipFilterIndex
Description	Defines the table that stores all IP filter entries for the device. Each row (indexed by ipFilterIndex) represents one allowed or blocked IP range and contains the parameters used to evaluate whether a client IP address is permitted to access the device.

- **ipFilterEntry**

Each entry defines the settings for one restricted-IP record, indexed by ipFilterIndex.

- ipFilterEntry

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.4.2.3.1
Syntax	IpFilterEntry
Access	Not-accessible
Indexes	ipFilterIndex
Description	Represents a single restricted-IP entry within the ipFilterTable. Each entry stores the parameters for one IP range, including the start and end addresses used for IP-filter evaluation.

- ipFilterIndex

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.4.2.3.1.1
Syntax	INTEGER (1..5)
Access	Read-only
Indexes	ipFilterIndex
Status	Current
Description	Identifies the index for an IP filter entry within the ipFilterTable. This index selects which entry is being referenced when configuring or retrieving restricted IP ranges.

- `ipFilterFrom`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.5.4.2.3.1.2`
Syntax	IPADDRESS
Access	Read-write
Indexes	`ipFilterIndex`
Description	Specifies the starting IP address of the restricted IP range for this entry. ◆ Accepts a valid IP address (e.g., `192.168.0.1`). ◆ Set the value to `0.0.0.0` to clear the configured address. **Note:** Users must input a valid IP address format when configuring this parameter.

- `ipFilterTo`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.5.4.2.3.1.3`
Syntax	IPADDRESS
Access	Read-write
Indexes	`ipFilterIndex`
Description	Specifies the ending IP address of the restricted IP range for this entry. ◆ Accepts a valid IPv4 address (e.g., `192.168.0.255`). ◆ Set the value to `0.0.0.0` to clear the configured address. **Note:** Users must ensure that the ending IP address is equal to or greater than the starting IP address defined by `ipFilterFrom`.

macFilterr

- macFilter

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.4.3
Syntax	N/A (branch)
Access	Not-accessible
Description	Defines the root node for MAC-based login access control. This branch groups all objects used to enable the MAC filter function and configure allow/deny rules using individual entries in the MAC filter table.

macFilterEnabled

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.4.3.1
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls whether MAC filtering is active on the device. ◆ 1 (no): MAC filtering is disabled. All hosts can access the device. ◆ 2 (yes): MAC filtering is enabled. Access is permitted only for MAC addresses listed in the MAC filter table.

macFilterRule

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.4.3.2
Syntax	INTEGER {include(1), exclude(2) }
Access	Read-write
Description	Controls the rule applied when MAC filtering is enabled. ◆ 1 (include): Only the MAC addresses listed in the MAC filter table are allowed to access the device. All other MAC addresses will be blocked. ◆ 2 (exclude): The MAC addresses listed in the MAC filter table are blocked. All other MAC addresses are allowed to access the device.

macFilterTable

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.4.3.3
Syntax	SEQUENCE OF MacFilterEntry
Access	Not-accessible
Indexes	macFilterIndex
Description	Defines the table that stores all MAC filter entries for the device. Each row (indexed by macFilterIndex) represents one allowed or blocked MAC address and contains the parameters used to determine whether a client with that MAC address is permitted to access the device.

- **macFilterEntry**

Each entry defines the settings for one restricted-IP record, indexed by `ipFilterIndex`.

- `macFilterEntry`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.5.4.3.3.1`
Syntax	MacFilterEntry
Access	Not-accessible
Indexes	`macFilterIndex`
Description	Represents a single restricted-MAC entry within the `macFilterTable`. Each entry stores the status and parameter values for a restricted MAC address used in MAC-filter evaluation.

- `macFilterIndex`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.5.4.3.3.1.1`
Syntax	INTEGER (1..5)
Access	Read-only
Indexes	`macFilterIndex`
Status	Current
Description	Identifies the index for a MAC filter entry within the `macFilterTable`. This index selects which entry is being referenced when configuring or retrieving restricted MAC addresses.

- macFilterSet

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.4.3.3.1.2
Syntax	DisplayString
Access	Read-write
Indexes	macFilterIndex
Description	Specifies the restricted MAC address for this entry. ◆ Accepts a 12-digit hexadecimal MAC string (e.g., 004854655511). ◆ Set the value to 000000000000 to clear the configured MAC address. **Note:** Users must input a valid 12-digit MAC string when configuring this parameter.

authentication

The `authentication` subtree defines settings for external user-verification, primarily through RADIUS.

These parameters control how the device communicates with RADIUS servers to validate login attempts.

- `authentication`

OID	`1.3.6.1.4.1.21317.1.3.2.2.3.5.5`
Syntax	N/A (branch)
Access	Not-accessible
Description	Groups the objects used to configure RADIUS-based authentication. These settings specify server addresses, ports, timeouts, retry behavior, and the shared secret used for validating login requests.

radius

- radius

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.5.1
Syntax	N/A (branch)
Access	Not-accessible
Description	Defines the root node for RADIUS-based authentication settings. This branch contains objects used to enable RADIUS authentication and configure the primary / alternate RADIUS server parameters.

radiusEnabled

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.5.1.1
Syntax	INTEGER { no(1), yes(2) }
Access	Read-write
Description	Controls whether RADIUS authentication is enabled on the device. ◆ 1 (no): RADIUS authentication is disabled. Local user accounts are used for login. ◆ 2 (yes): RADIUS authentication is enabled. Login requests are authenticated through the configured RADIUS server(s).

preferRadiusIp

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.5.1.2
Syntax	IPADDRESS
Access	Read-write
Description	Specifies the IP address of the preferred RADIUS server.

preferRadiusPort

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.5.1.3
Syntax	INTEGER (1..65535)
Access	Read-write
Description	Specifies the port number of the preferred RADIUS server.

alternateRadiusIp

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.5.1.4
Syntax	IPADDRESS
Access	Read-write
Description	Specifies the IP address of the alternate RADIUS server.

alternateRadiusPort

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.5.1.5
Syntax	INTEGER (1..65535)
Access	Read-write
Description	Specifies the port number of the alternate RADIUS server.

radiusTimeOut

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.5.1.6
Syntax	INTEGER (1..60)
Access	Read-write
Description	Specifies the timeout period for RADIUS authentication. ◆ Valid range: 1–60 seconds ◆ The value defines how long the device waits for a response from the RADIUS server before marking the attempt as failed.

radiusRetry

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.5.1.7
Syntax	INTEGER (0..10)
Access	Read-write
Description	Specifies the number of retry attempts for RADIUS authentication. ◆ Valid range: 0–10 ◆ The value defines how many times the device retries contacting the RADIUS server when no response is received.

radiusSecret

OID	1.3.6.1.4.1.21317.1.3.2.2.3.5.5.1.8
Syntax	DisplayString
Access	Read-write
Description	Specifies the shared secret used for authentication with the RADIUS server. ◆ String length: 6–15 characters **Note:** Input the literal string /empty to reset the value to NULL. The string /empty is interpreted as a reset command, not as an empty string (""").

Chapter 8
System Maintenance via SNMP

Overview

The System Maintenance subtree of the ATEN-PE2 MIB defines objects for monitoring device conditions and performing essential maintenance operations via SNMP. This includes custom trap message reporting and remote reboot control.

Custom Trap Message

This OID displays the customized SNMP trap message defined for the device.

The value is read-only and is used by the monitoring system when a trap is generated.

- `customTrapMSG`

OID	`1.3.6.1.4.1.21317.1.3.2.2.5`
Syntax	DisplayString
Access	Read-only
Description	Displays the customized SNMP trap message defined for the device. This object is read-only and provides the message content used when the device sends a trap to the SNMP manager.

Reboot PE Device

Allows the device to be rebooted through SNMP.

Set the value to `2` (yes) to trigger an immediate system reboot. The value `1` (no) performs no action.

- `rebootDevice`

OID	`1.3.6.1.4.1.21317.1.3.2.2.5`
Syntax	INTEGER {no(1), yes(2) }
Access	Read-write
Description	Triggers a device reboot through SNMP. ◆ Setting the value to `2` (yes) forces an immediate system reboot. ◆ Setting the value to `1` (no) performs no action.

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