

# Campus Controller

## Release Note

Version V1.0R009

# Contents

- 1. Preface .....2**
  - 1.1 Target Audience .....2**
- 2. Modification of Records .....3**
- 3. Description .....4**
- 4. Update Records .....5**
  - 4.1 New Feature.....5**
  - 4.2 Improvements and Enhancements .....5**
  - 4.3 Bugs .....6**
  - 4.4 Document Changes .....6**
    - 4.4.1 User Guide .....6
- 5. Upgrade Considerations .....7**

# 1. Preface

The purpose of this document is to provide important information about the released software version, including but not limited to the following information: running platform, important components, main features, key updates.

## 1.1 Target Audience

This manual is primarily intended for following engineers:

- Software Developers
- Software Testers
- Customer Site Implementers

## 2. Modification of Records

Date	Versions	Modify Remarks
2026-01-14	V1.0	Campus Controller -V1.0R009 release

### 3. Description

The release version is **V1.0R009** the specific information are as following:

- Image
  - controller\_V1.0\_R09.bin, md5sum:ef8507accedb4b54c5a2b77536945671
  - controller\_V1.0\_R09\_arm.bin, md5sum:8e159d5a1d9c253f98d1eeafaaf82ff2
  - CX-M-SW-2025.12.25-00229.bin, md5sum:90f02f52f8572021f8141dcb88548cd0
- uCentral Client for switch
- Supporting user manual
  - User Manual-Campus Controller Usage Guide-en-v9.0

## 4. Update Records

### 4.1 New Feature

- Network and Topology
  - Support open cloud interconnection scenarios
- OLT Stick/ONU Stick management
  - Support status management
  - Support configuration deployment/work mode switching/blacklist management
  - Support O&M alarms
- OLG Device Management
  - Support status management
  - Support commands
  - Support O&M alarms
- Operations and Visualization
  - Support Dashboard monitoring data indicators by client dimension/operations dimension
  - Support AP alarms/inspection/patch management
  - Support AP RF signal shutdown
  - Support device diagnostic operation commands
- Client Management
  - Support full life cycle management of wireless clients

### 4.2 Improvements and Enhancements

- WEBUI Page Optimization
  - Optimize the Dashboard monitoring metrics to jump to device/client details
  - Optimize OAuth 2.0 login process
  - Optimize switch device interface panel display
  - Optimize styles of some chart components
- Upgrade and Installation
  - Support controller/switch/AP file upgrade via URL download
  - Support uploading controller image files/switch version/AP version files with real-time progress bar display

## 4.3 Bugs

- Operations and Maintenance
  - After sorting the alert list, paging does not work and the default sorting method is restored
  - After sorting the terminal list, paging does not work and the default sorting method is restored
- Others
  - Corrected internationalization information for some entries
  - Fixed occasional login failure issue for OAuth 2.0 users

## 4.4 Document Changes

### 4.4.1 User Guide

- Added configuration instructions for new features

## 5. Upgrade Considerations

- The switch version to which the controller adapts is AsterNOS-V5.2R013 and later, other switch versions need to update the ucentral client. Refer to Chapter Three for the corresponding ucentral client version.
- The controller deployed on the cloud needs to add a port access policy to the Alibaba Cloud deployment example:

Type	Direction	Policy	IP Protocol	Port Range	Priority	SIP Address	...	Description
intranet	ingress	Accept	UDP	64218/64218	1	0.0.0.0/0		olt stick
intranet	ingress	Accept	TCP	16013/16013	1	0.0.0.0/0		owupgrade
intranet	ingress	Accept	TCP	16012/16012	1	0.0.0.0/0		owmgmt
intranet	ingress	Accept	TCP	16011/16011	1	0.0.0.0/0		owom
intranet	ingress	Accept	TCP	16008/16008	1	0.0.0.0/0		ownacm
intranet	ingress	Accept	TCP	16006/16006	1	0.0.0.0/0		owsub
intranet	ingress	Accept	TCP	15002/15002	1	0.0.0.0/0		owgw
intranet	ingress	Accept	TCP	16002/16003	1	0.0.0.0/0		owgw
intranet	ingress	Accept	TCP	16004/16004	1	0.0.0.0/0		owfms
intranet	ingress	Accept	TCP	16009/16009	1	0.0.0.0/0		owanalytics
intranet	ingress	Accept	TCP	16005/16005	1	0.0.0.0/0		owprov
intranet	ingress	Accept	TCP	16001/16001	1	0.0.0.0/0		owsec
intranet	ingress	Accept	TCP	5912/5913	1	0.0.0.0/0		owgw
intranet	ingress	Accept	TCP	8088/8088	1	0.0.0.0/0		port-server
intranet	ingress	Accept	TCP	443/443	100	0.0.0.0/0		owgw-ui