



ExtremeCloud OS ONE SD-WAN v30.26.2.0 API Guide

Implementation, Configuration, and Management

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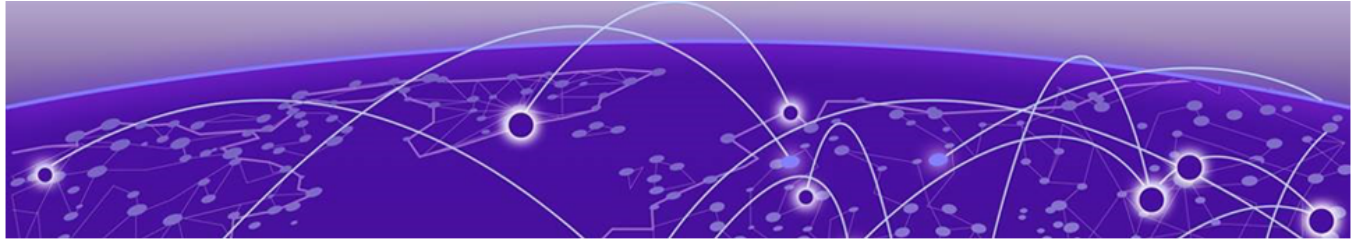
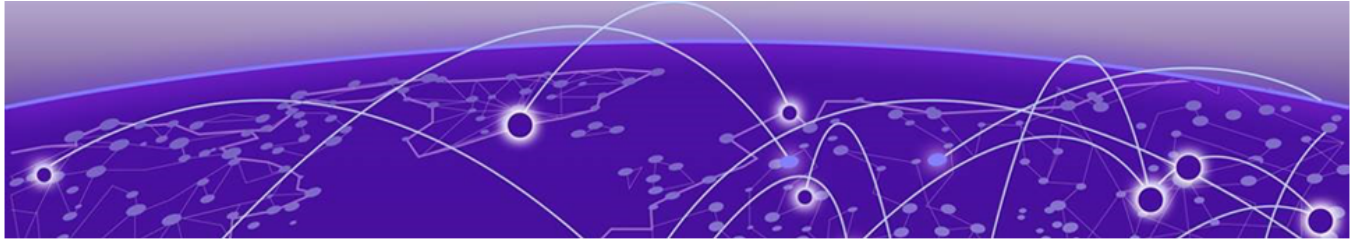


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Abstract

This API guide for ExtremeCloud OS ONE SD-WAN version 30.26.2.0 provides technical documentation for the XAPI, a programmatic interface enabling advanced users to automate repetitive tasks and build custom dashboards within the SD-WAN orchestrator. The guide details RESTful API endpoints organized into five categories—Authentication, Configuration, Monitoring, and Alarms—accessible via standard HTTP methods (GET, DELETE, POST, PUT) with JSON response formatting. Key modifications in version 30.26.2.0 include enhanced device management configuration, improved appliance status indicators, and expanded underlay connection visibility. Authentication requires internal administrator accounts and Swagger-based token generation. Current limitations include partial Swagger coverage, internal-account-only access, and missing GET counterparts for certain PUT operations. The base URL is <https://api.extremecloudiq.com/sdwan/xapi>. Guidance covers API versioning, authentication procedures, endpoint catalog structure, safe request patterns, and validation best practices. The document is intended for technical users with administrator-level access.



Preface

Read the following topics to learn about:

- The meanings of text formats used in this document.
- Where you can find additional information and help.
- How to reach us with questions and comments.

Text Conventions

Unless otherwise noted, information in this document applies to all supported environments for the products in question. Exceptions, like command keywords associated with a specific software version, are identified in the text.

When a feature, function, or operation pertains to a specific hardware product, the product name is used. When features, functions, and operations are the same across an entire product family, such as Extreme Networks switches, the product is referred to as *the switch*.

Table 1: Notes and warnings

Icon	Notice type	Alerts you to...
	Tip	Helpful tips and notices for using the product
	Note	Useful information or instructions
	Important	Important features or instructions
	Caution	Risk of personal injury, system damage, or loss of data
	Warning	Risk of severe personal injury

Table 2: Text

Convention	Description
screen displays	This typeface indicates command syntax, or represents information as it is displayed on the screen.
The words <i>enter</i> and <i>type</i>	When you see the word <i>enter</i> in this guide, you must type something, and then press the Return or Enter key. Do not press the Return or Enter key when an instruction simply says <i>type</i> .
Key names	Key names are written in boldface, for example Ctrl or Esc . If you must press two or more keys simultaneously, the key names are linked with a plus sign (+). Example: Press Ctrl+Alt+Del
<i>Words in italicized type</i>	Italics emphasize a point or denote new terms at the place where they are defined in the text. Italics are also used when referring to publication titles.
NEW!	New information. In a PDF, this is searchable text.

Table 3: Command syntax

Convention	Description
bold text	Bold text indicates command names, keywords, and command options.
<i>italic text</i>	Italic text indicates variable content.
[]	Syntax components displayed within square brackets are optional. Default responses to system prompts are enclosed in square brackets.
{ x y z }	A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options.
x y	A vertical bar separates mutually exclusive elements.
< >	Nonprinting characters, such as passwords, are enclosed in angle brackets.
...	Repeat the previous element, for example, <i>member[member...]</i> .
\	In command examples, the backslash indicates a “soft” line break. When a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash.

Documentation and Training

Find Extreme Networks product information at the following locations:

[Current Product Documentation](#)

[Release Notes](#)

[Hardware and Software Compatibility](#) for Extreme Networks products
[Extreme Optics Compatibility](#)
[Other Resources](#) such as articles, white papers, and case studies

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Training

Extreme Networks offers product training courses, both online and in person, as well as specialized certifications. For details, visit the [Extreme Networks Training](#) page.

Help and Support

If you require assistance, contact Extreme Networks using one of the following methods:

Extreme Portal

Search the GTAC (Global Technical Assistance Center) knowledge base; manage support cases and service contracts; download software; and obtain product licensing, training, and certifications.

The Hub

A forum for Extreme Networks customers to connect with one another, answer questions, and share ideas and feedback. This community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.

Call GTAC

For immediate support: (800) 998 2408 (toll-free in U.S. and Canada) or 1 (408) 579 2800. For the support phone number in your country, visit www.extremenetworks.com/support/contact.

Before contacting Extreme Networks for technical support, have the following information ready:

- Your Extreme Networks service contract number, or serial numbers for all involved Extreme Networks products
- A description of the failure
- A description of any actions already taken to resolve the problem
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any related RMA (Return Material Authorization) numbers

Subscribe to Product Announcements

You can subscribe to email notifications for product and software release announcements, Field Notices, and Vulnerability Notices.

1. Go to [The Hub](#).
2. In the list of categories, expand the **Product Announcements** list.
3. Select a product for which you would like to receive notifications.
4. Select **Subscribe**.
5. To select additional products, return to the **Product Announcements** list and repeat steps 3 and 4.

You can modify your product selections or unsubscribe at any time.

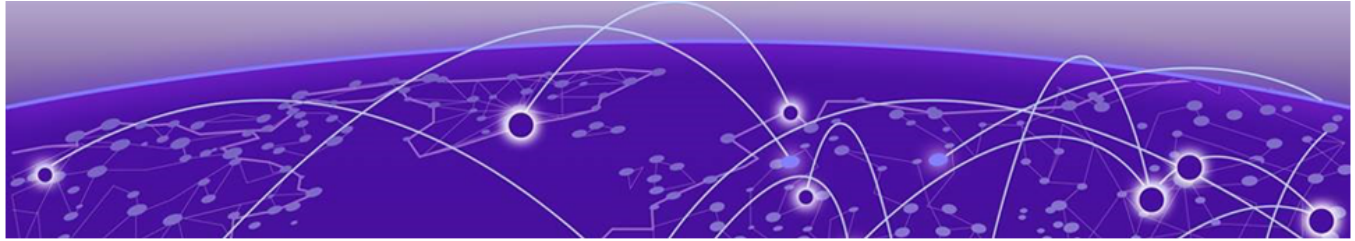
Send Feedback

The User Enablement team at Extreme Networks has made every effort to ensure that this document is accurate, complete, and easy to use. We strive to improve our documentation to help you in your work, so we want to hear from you. We welcome all feedback, but we especially want to know about:

- Content errors, or confusing or conflicting information.
- Improvements that would help you find relevant information.
- Broken links or usability issues.

To send feedback, email us at Product-Documentation@extremenetworks.com.

Provide as much detail as possible including the publication title, topic heading, and page number (if applicable), along with your comments and suggestions for improvement.



What is ExtremeCloud OS ONE SD-WAN XAPI?

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The ExtremeCloud OS ONE SD-WAN XAPI provides programmatic access to the SD-WAN orchestrator. It is designed for advanced users who want to automate repetitive tasks or build custom dashboards that go beyond the orchestrator user interface.

XAPI is a subset of orchestrator operations and is not a replacement for the user interface. Each XAPI broadly corresponds to an action available in the orchestrator. All requests use standard HTTP methods (GET, DELETE, POST, PUT) and return responses in JSON format.



Note

This documentation applies to ExtremeCloud OS ONE SD-WAN release 30.26.2.0

API Changes in 30.26.2.0

The following ExtremeCloud OS ONE SD-WAN endpoints is modified in 30.26.2.0

Modified APIs

- **GET /configuration/v1/manage/devices**

Enhanced device management configuration with improved payload structure and additional device parameters.

- **GET /monitoring/v1/appliances/{id}/status**

Enhanced response structure with additional status indicators and health metrics.

- **GET /monitoring/v1/connections**

Improved query parameters and response filtering capabilities for connection monitoring.

- **GET /monitoring/v1/connections/underlays**

Enhanced underlay connection visibility with expanded response data and improved performance metrics.

**Note**

No new endpoints were added, updated or deprecated in 30.26.2.0.

Getting Started

Use this procedure to start using the ExtremeCloud OS ONE SD-WAN XAPIs.

1. Create an account.

Sign up or log in to your account.

**Note**

You must be both an ExtremeCloud OS ONE SD-WAN administrator and an administrator to use the XAPI.

2. Authenticate.

Use the Swagger user interface to authenticate with your username and password and obtain an access token. This token is required for all subsequent API calls.

3. Explore the [API catalog](#).

Browse all available XAPIs in the [Swagger documentation site](#). Review supported operations, parameters, and example JSON responses before writing any scripts.

4. Make your first API call.

Use **Try it out** in Swagger to execute an endpoint. Inspect the request URL and response body to understand the structure to use in your scripts.

API Catalog

ExtremeCloud OS ONE SD-WAN XAPIs are organized into the following categories and endpoints:

Authentication

- Authentication

Configuration

- Appliance configuration
- Onboarding

Monitoring

- Application 360
- Appliance 360
- Site 360
- Topology
- WAN 360

Alarms

- Alarms

Authentication

All XAPI requests require a valid access token obtained by authenticating against the server. Use this procedure to authenticate.

1. Open [Swagger](#) and locate the **Authentication** section.
2. Select **Try it out**. Then, enter your username and password in the request body, and select **Execute**.
3. Copy the `access_token` from the response body.
4. Select the lock icon on any endpoint, paste the token, and select **Authorize** to activate the session.



Important

Only internal administrator accounts are supported. External admin accounts cannot be used directly. A dedicated home user account must be created for each target account. For example, if your home account is `Account1` but you need access to `Account2`, create a user such as `user+Account2@company.com` as a home user for `Account2`.

Limitations

Be aware of the following current limitations in this release:

- Internal accounts only.

External admin logins are not supported. Create a dedicated home user for each account you need to access through XAPI.

- Partial Swagger coverage

Not all operations are exposed through Swagger but they are accessible using SSO authentication. Operations will be added in a future release.

- Sites through common services

Creating or listing sites requires a different path through ExtremeCloud common services. For more information, see [Helpful Tips](#) on page 12.

- Missing GET counterparts

Some PUT operations do not yet have a corresponding GET endpoint. A temporary workaround using `/sdwan-webapp/api` with session cookies is available until these are added in a future release.

API Versioning

The base URL for all ExtremeCloud OS ONE SD-WAN XAPIs is:

```
https://api.extremecloudiq.com/sdwan/xapi
```

Endpoint paths shown in Swagger are relative to this base URL. For example, to retrieve the list of appliances, the full request path is:

```
https://api.extremecloudiq.com/sdwan/xapi/configuration/v1/appliances
```

The full request URL is always shown in the Swagger user interface after selecting **Execute**.

**Note**

Validate your scripts against each major ExtremeCloud OS ONE SD-WAN release. The XAPI evolves from release to release.

Helpful Tips

- Chaining GET calls

Many operations require an ID (such as an appliance ID) that can only be obtained by first running a list GET. Plan your API call sequence accordingly.

- Safe PUT pattern

Before modifying a setting, first GET the current configuration, change only the target field, then PUT the full object back. This avoids accidentally overwriting unrelated settings.

- Sites path

To get a list of sites, use the GDC-level path:

```
/sdwan-webapp/gdc/locations/site
```

- Fallback for unsupported PUTs

Use {BaseURL}/sdwan-webapp/api with the xcloud-session cookie for PUT operations not yet available in Swagger. Refer to the sample scripts included with the SDK for implementation details.

- Use Swagger first

Always prototype in the Swagger user interface before writing code. It provides the exact request URL, parameter names, and JSON response structure needed for your scripts.

**Tip**

Re-test and validate all scripts after each major release. XAPI endpoints and response structures may change from release to release.

Next Steps

To work with ExtremeCloud OS ONE SD-WAN XAPI, do the following:

- Browse the full API reference using the Swagger user interface at <https://api.extremecloudiq.com/sdwan-ng-api/swagger-ui/index.html#/>.
- Review the sample scripts included with the SDK for common automation patterns.
- Contact your Extreme Networks account team for access to additional resources and support.