Manual

Balluff Update Platform

Document version: *2026-02-13 - 765a06f2408c234e3675a2be9f840dd82351e4b0*

CONTENTS

Welcome to the Balluff Update Platform (BUP) documentation. Here you'll find an overview of BUP, its features, and step-by-step instructions for getting started and managing updates efficiently.

This getting started guide will help you to find and download artifacts that are associated with your Balluff product, such as firmware updates or configuration files.

CHAPTER

ONE

PREREQUISITES

Please ensure you have the following information before proceeding:

- The 7 digit order code or the type code of your Balluff product.
  This information is printed on the device or can be seen on various interfaces like *Balluff Engineering Tool* or *BNI/Network Block Module*.
- The hardware version of your product, if applicable.
  This information can usually be found on the device label or in the product documentation.

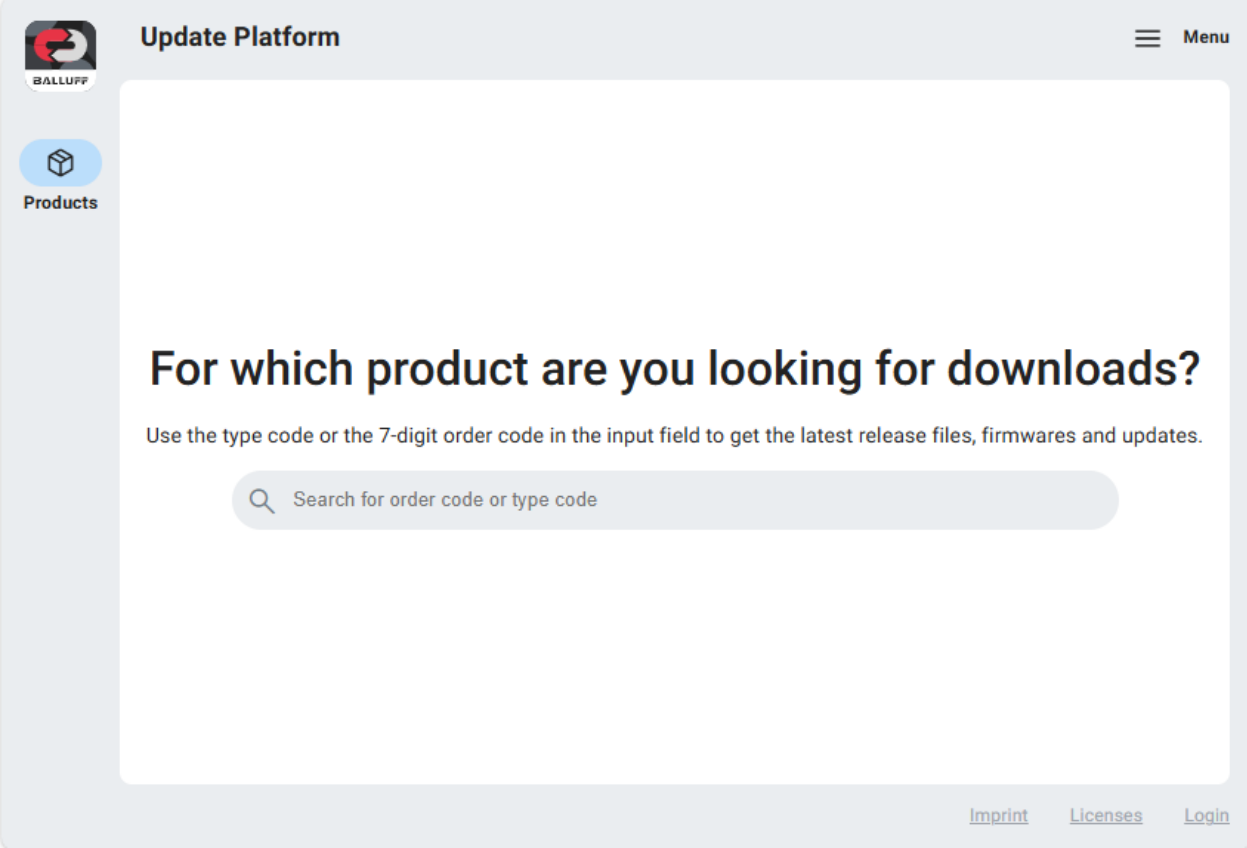
CHAPTER

TWO

FIND AND DOWNLOAD PRODUCT ARTIFACTS

To find and download product artifacts, follow these steps.

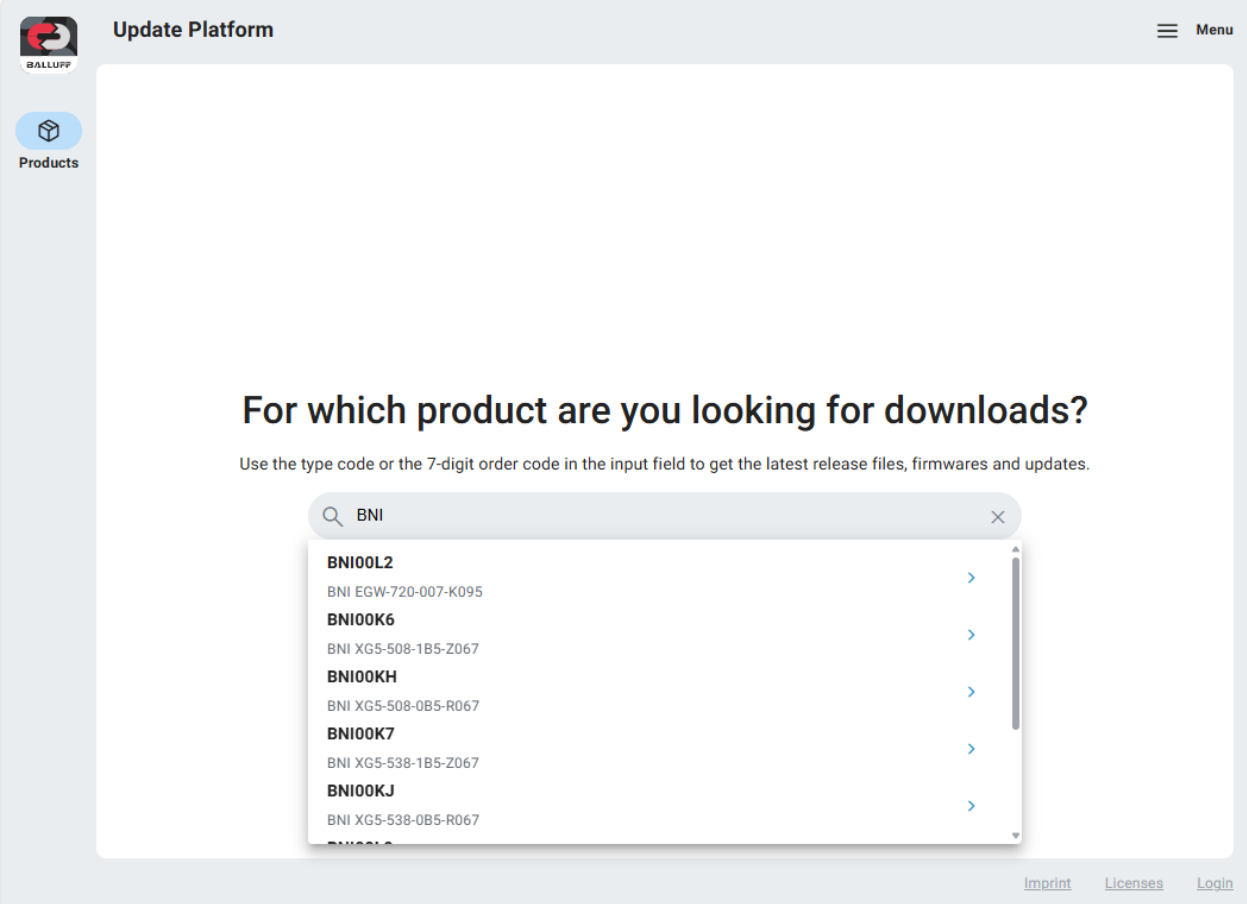
1. Access the Balluff Update Platform. To do so, open your web browser and navigate to https://update.balluff.systems. You will be redirected to the Products menu.



2. To find entries for your product, enter the seven digit order code or the type code in the search field. From the previewed results, click on your product to open its dedicated product page.

   The product page opens and shows information about the latest available release.
   New artifacts in this release are marked next to the artifact version.

3. To navigate to the desired release, open the dropdown box showing the currently selected release and select the needed version. The downloadable files are presented in the table below.



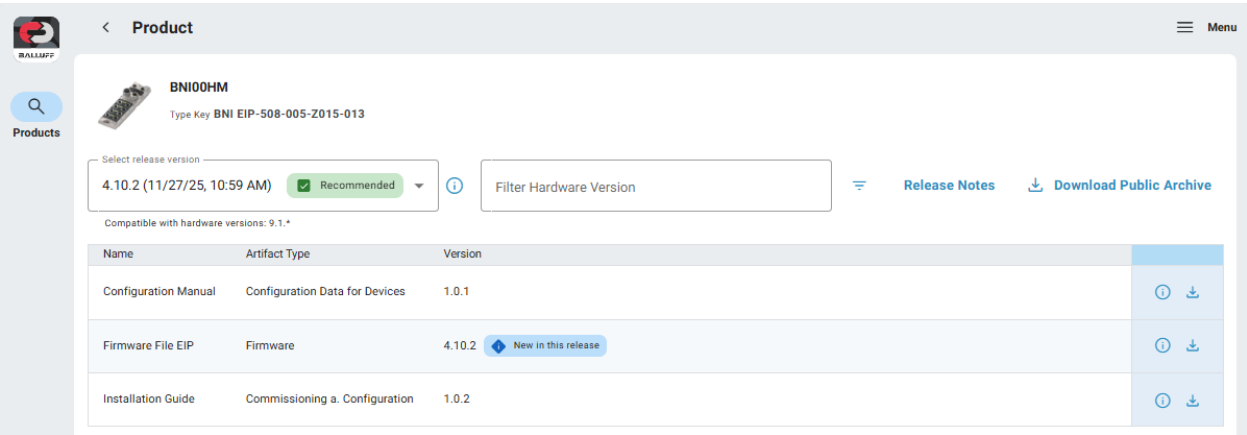
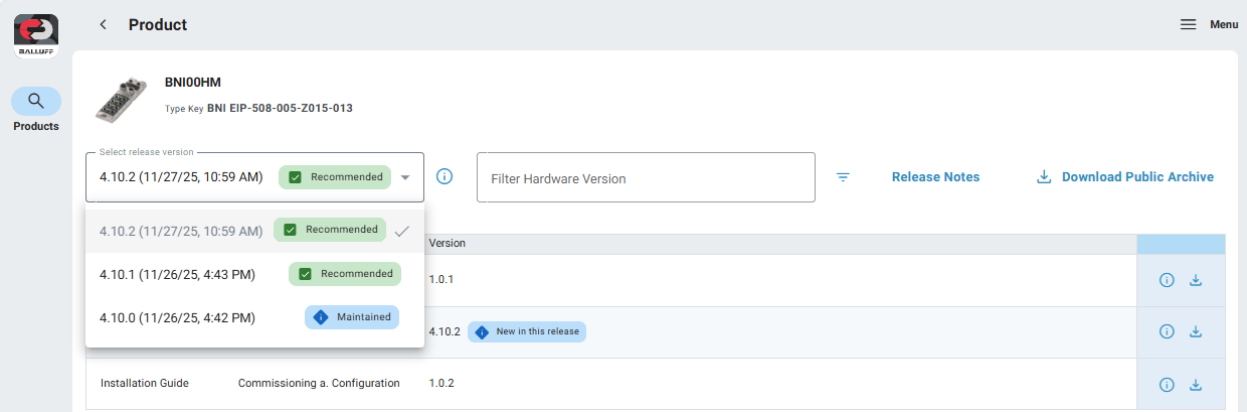


Fig. 1: Product page

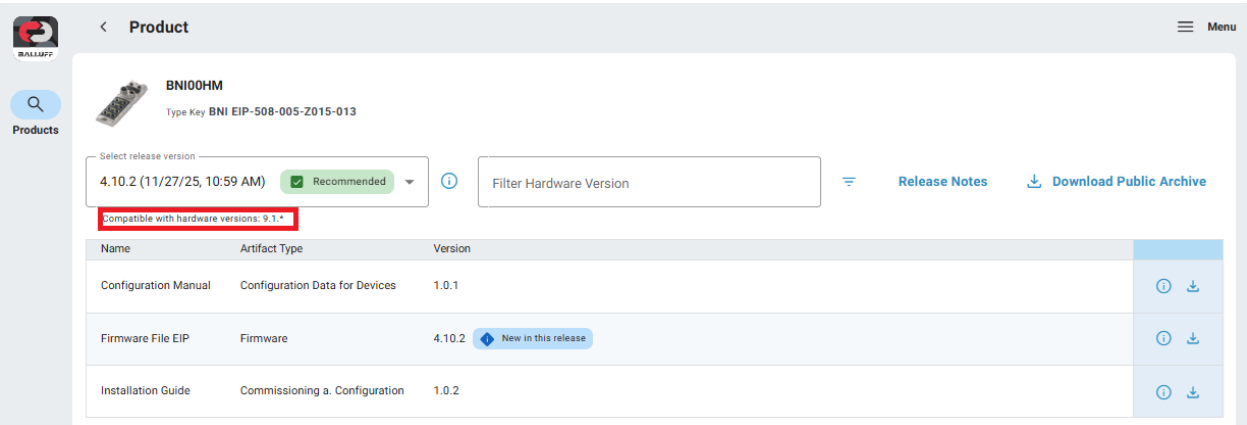


Hint

Releases can have following states:

- **Recommended** Actively maintained, fully supported, safest option
- **Maintained** Supported with essential fixes, but not the newest
- **Deprecated** Unsupported, no fixes - do not use this

4. Check if the listed files match your products hardware version. The information is displayed below the release selection.
   Releases without text are compatible with all hardware versions of this product.



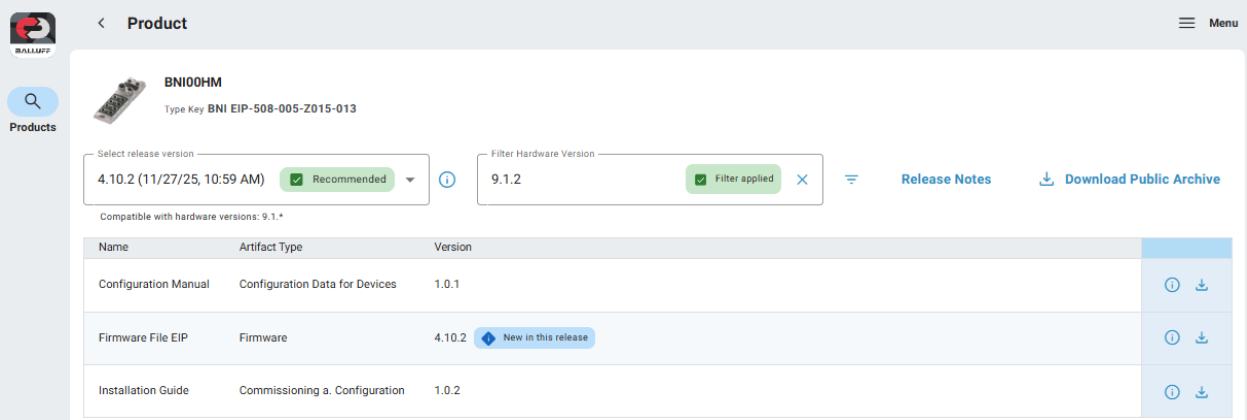
Note

When compatible hardware includes versions like

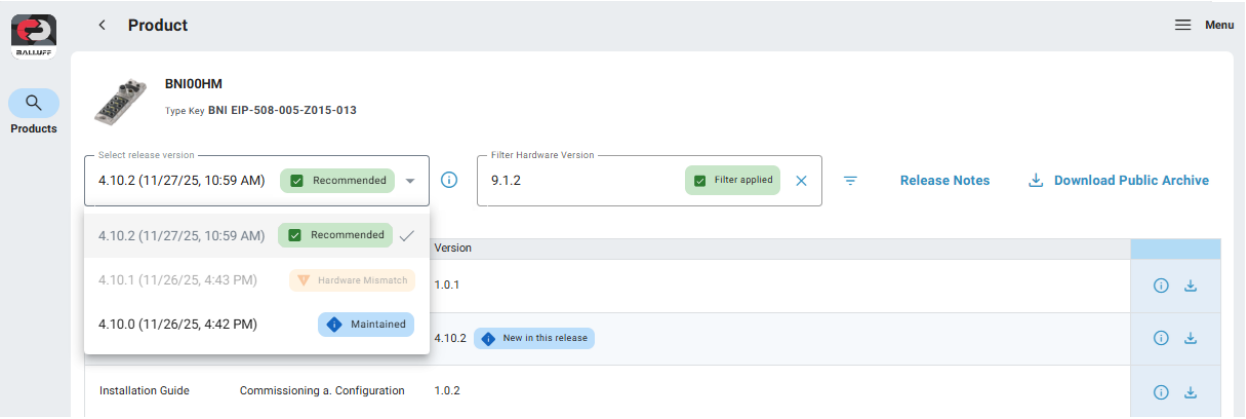
- `1.*.*` then the release is compatible to all versions beginning with major version 1.
- `1.1.*` then the release is compatible to all versions beginning with major and minor version 1.1.

When there is no compatible text, the release is valid for all devices containing this order code.

5. (Optional) Type in your hardware version in the filter field.
   When the current release does not match it will be changed automatically.



The relese selection disables incompatible versions.



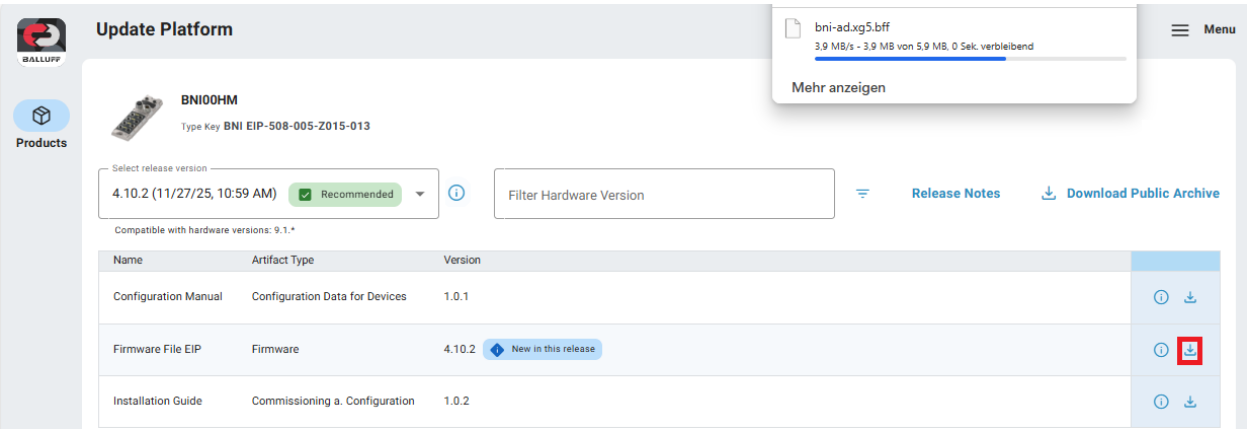
6. (Optional) To get a bookmark of the newest release you need to save the URL without the filter after the order code.
7. (Optional) You may want to verify artifact file information before download, see *Information of release files*
8. To download a file, click on the download icon on the right side of the respective file row.

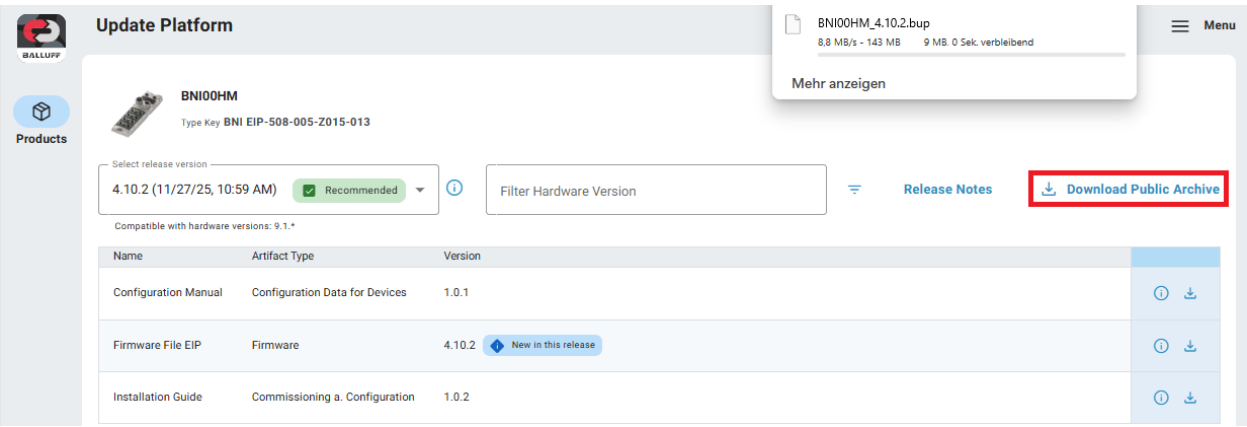
> **Warning**
>
> Do only install firmware on compatible hardware versions.

9. (Optional) You can download all public files of the selected release as archive.

   This archive can be handled by the Balluff Engineering Tool (BET) to update devices not connected to the internet. It has the ending .bup but is in fact a zip archive which can be extracted by any available archiver.

> **Warning**
>
> Do only install firmware on compatible hardware versions.


Update Platform
bni-ad.xg5.bff
3,9 MB/s - 3,9 MB von 5,9 MB, 0 Sek. verbleibend
Mehr anzeigen
Menu
Products
BNI00HM
Type Key BNI EIP-508-005-Z015-013
Select release version
4.10.2 (11/27/25, 10:59 AM)
Recommended
Filter Hardware Version
Release Notes
Download Public Archive
Compatible with hardware versions: 9.1.*
Name
Artifact Type
Version
Configuration Manual
Configuration Data for Devices
1.0.1
Firmware File EIP
Firmware
4.10.2
New in this release
Installation Guide
Commissioning a. Configuration
1.0.2


Update Platform
BNI00HM_4.10.2.bup
8,8 MB/s - 143 MB
9 MB, 0 Sek. verbleibend
Mehr anzeigen
Menu
Products
BNI00HM
Type Key BNI EIP-508-005-Z015-013
Select release version
4.10.2 (11/27/25, 10:59 AM)
Recommended
Filter Hardware Version
Release Notes
Download Public Archive
Compatible with hardware versions: 9.1.*
Name
Artifact Type
Version
Configuration Manual
Configuration Data for Devices
1.0.1
Firmware File EIP
Firmware
4.10.2
New in this release
Installation Guide
Commissioning a. Configuration
1.0.2

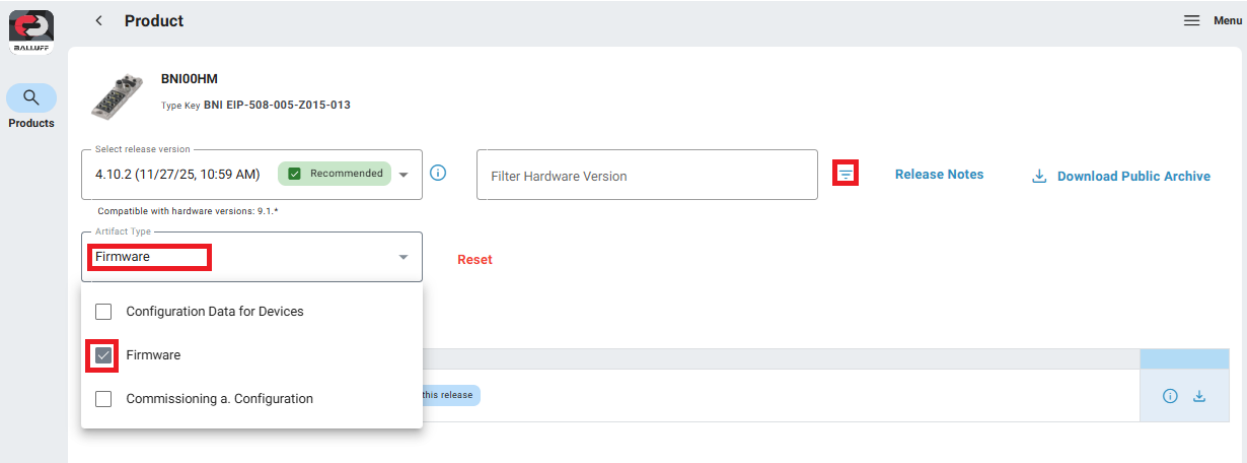
CHAPTER

THREE

FILTER FOR ARTIFACTS

To filter the available artifacts for specific types:

1. Navigate to the desired product release, see *Product page*.
2. To open the filter options for artifact types, click on the filter icon.
3. A new box for **Artifact Types** appears. To select the filter conditions, click on the checkboxes of the desired artifact types. To confirm your selection, click outside of the box.



Hint

- A button to reset the filter appeares when the artifact type filter is active
- The filter line can be hidden again by clicking on the filter icon a second time.
- To get a bookmark of always the newest release but with type filter you need to save the URL without version and releaseAt filter

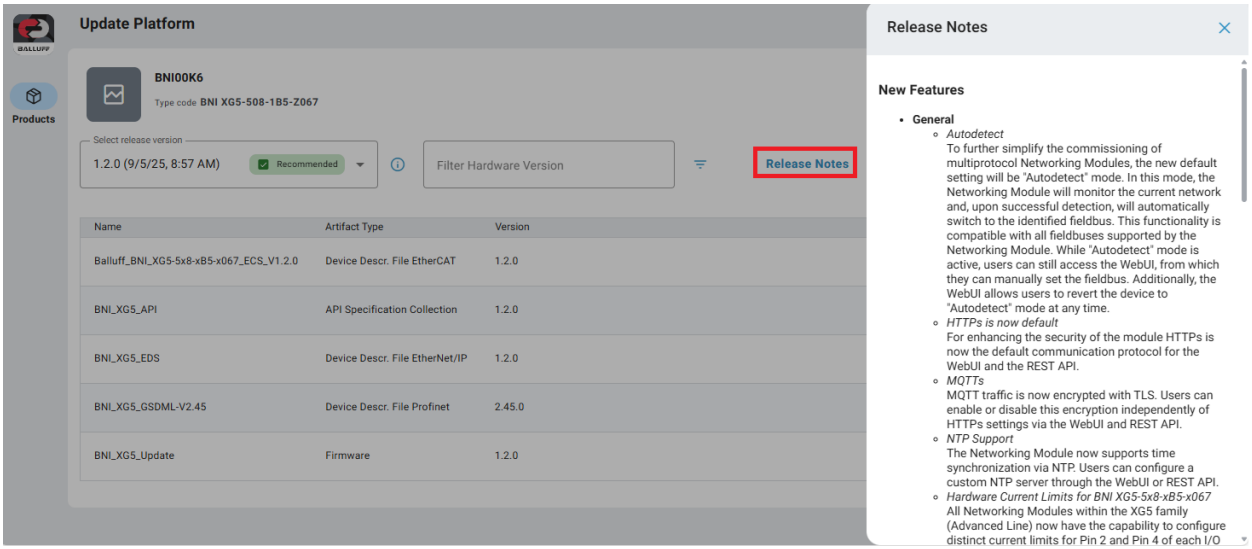
CHAPTER

FOUR

RELEASE NOTES

To view the release notes of a selected release:

1. Navigate to the desired product release, see *Product page*.
2. Click on the **Release Notes** button right of the release field. The release notes will be displayed on the right side.



3. To close the release notes, click outside the release notes drawer.

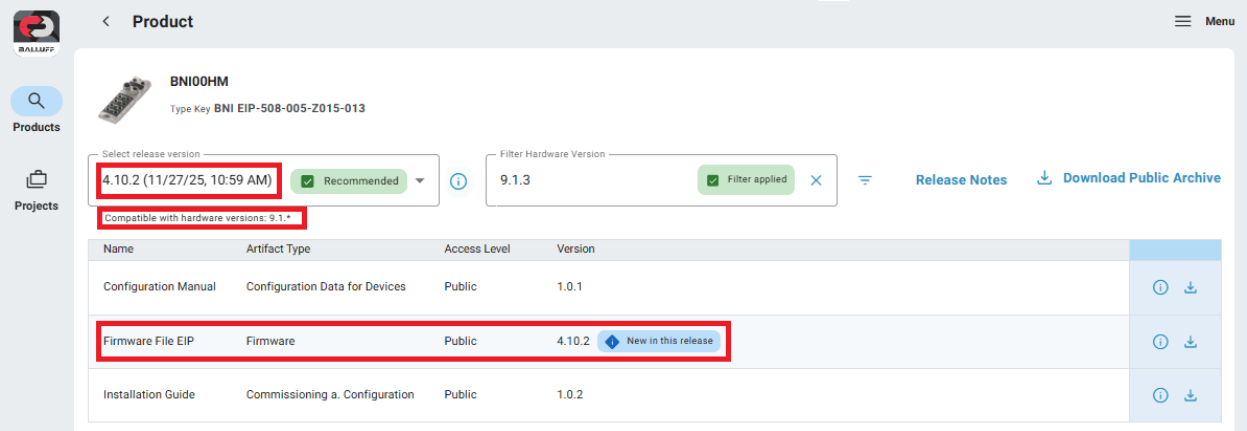
CHAPTER

FIVE

INFORMATION OF RELEASE FILES

To see additional information about a file:

1. Navigate to the desired product page, see *Product page*. A Table with available release artifacts is displayed.
2. Verify the artifact you want to download:
   - Release is the correct one matching your hardware.
   - Artifact Type is correct one.
   - Artifact Name matches your needs.
   - Artifact has changed since last release.



3. Click on **Information** icon in the artifact line.

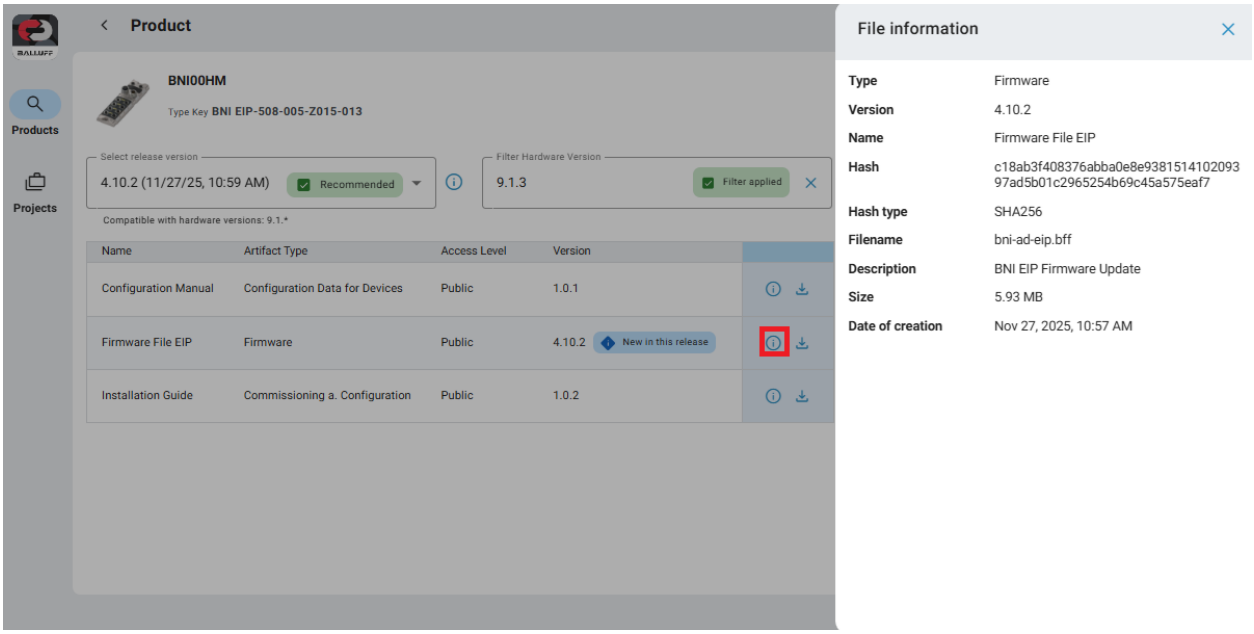
   Verify the file information:

   - Check *Description* if available.
   - Review remaining information.

   Hint

   The integrity of a downloaded file can be checked by comparing the SHA256 hash with the one shown in *File information* window. For more information go here: *Check file integrity*.

4. Click outside of the *File information* window to close it.


Product
BNI00HM
Type Key BNI EIP-508-005-Z015-013
Products
Projects
Select release version
4.10.2 (11/27/25, 10:59 AM)
Recommended
Filter Hardware Version
9.1.3
Filter applied
Compatible with hardware versions: 9.1.*
Name
Artifact Type
Access Level
Version
Configuration Manual
Configuration Data for Devices
Public
1.0.1
Firmware File EIP
Firmware
Public
4.10.2
New in this release
Installation Guide
Commissioning a. Configuration
Public
1.0.2
File information
Type
Firmware
Version
4.10.2
Name
Firmware File EIP
Hash
c18ab3f408376abba0e8e9381514102093
97ad5b01c2965254b69c45a575eaf7
Hash type
SHA256
Filename
bni-ad-eip.bff
Description
BNI EIP Firmware Update
Size
5.93 MB
Date of creation
Nov 27, 2025, 10:57 AM

CHAPTER

SIX

CHECK FILE INTEGRITY

6.1 Why do you want to check the integrity?

This list only shows some examples, but there are more:

- Check wether the downloaded file is complete or the download got corrputed.
- Check that the file that was downloaded a while ago is still the most recent one, even when the file was renamed.
- Chain of trust - Make it harder for attackers to tamper any file:
  - We can verify that the uploaded file is the one we wanted to upload.
  - You can verify that the file you downloaded is the file that was uploaded by us.

6.2 How does verifying with a hash work?

- A fingerprint of the file is generated and displayed in BUP.
- User downloads the file.
- User generates the fingerprint of the downloaded file.
- User compares both fingerprints.
  => The downloaded file is the same as in the cloud.

6.3 How to read the hash of a file on your PC via commandline?

Precondition:

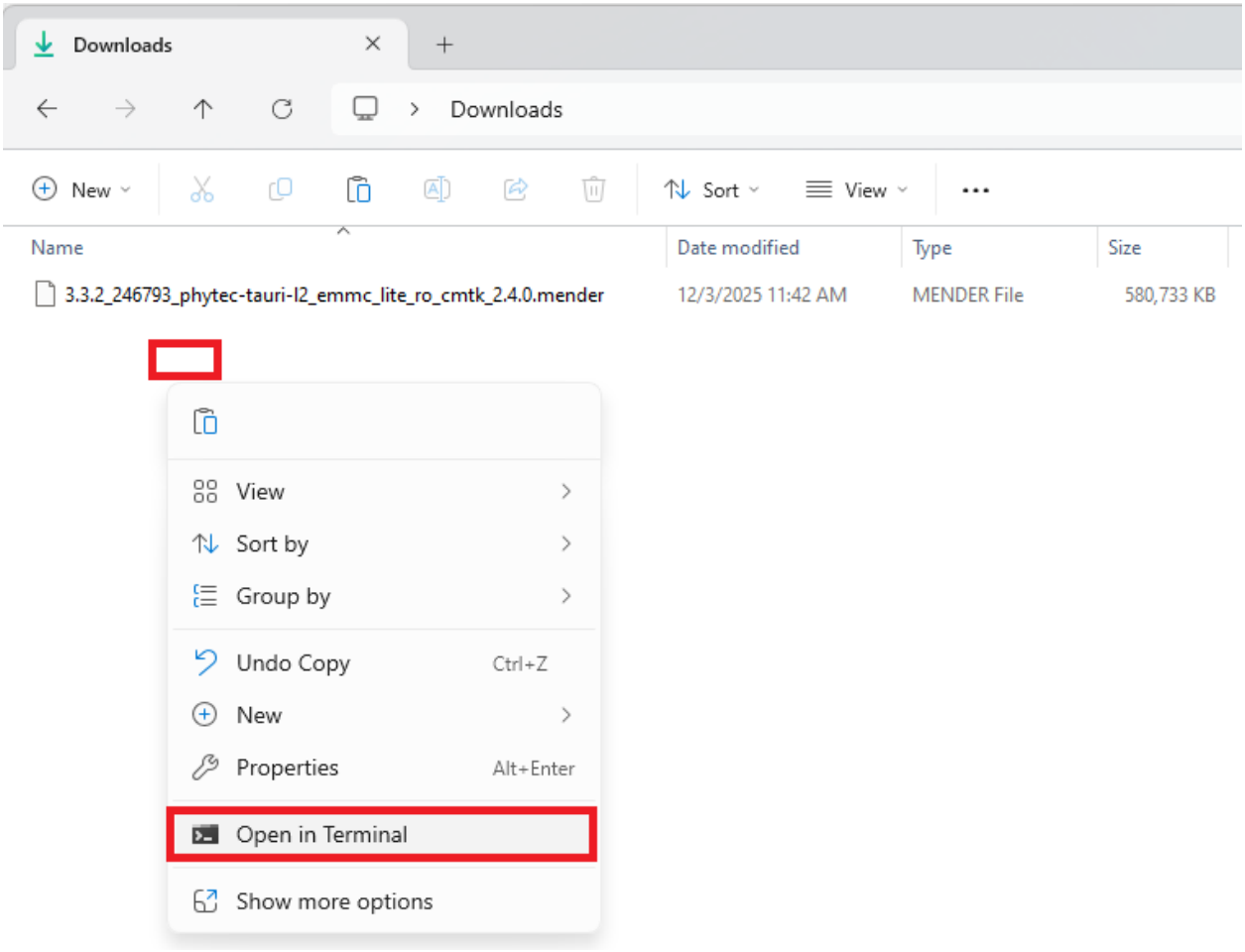
- A file is downloaded from BUP.

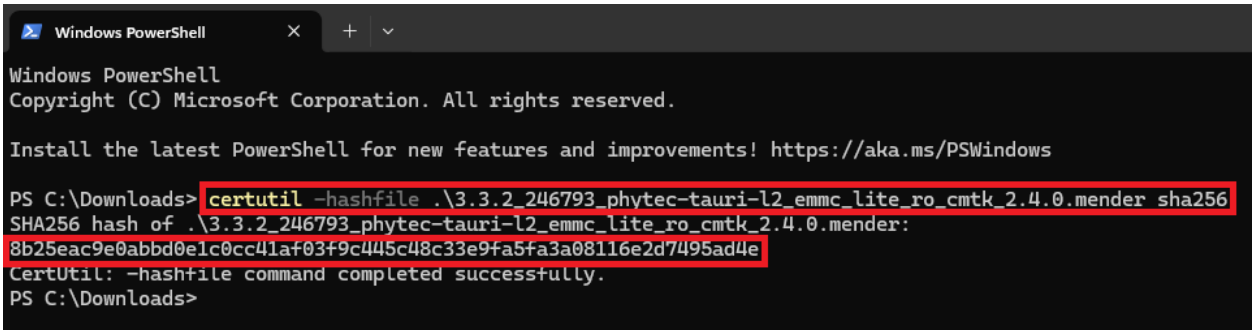
Steps:

1. Open folder of the file.
2. Right click on empty space in folder.
3. Click “Open in Terminal”.
4. Write “certutil -hashfile <your-file-name> sha256”

> **Hint**
>
> You can just write the begin of your file and complete it by pressing tabulator key.

5. Press enter key.
6. Read the displayed hash.





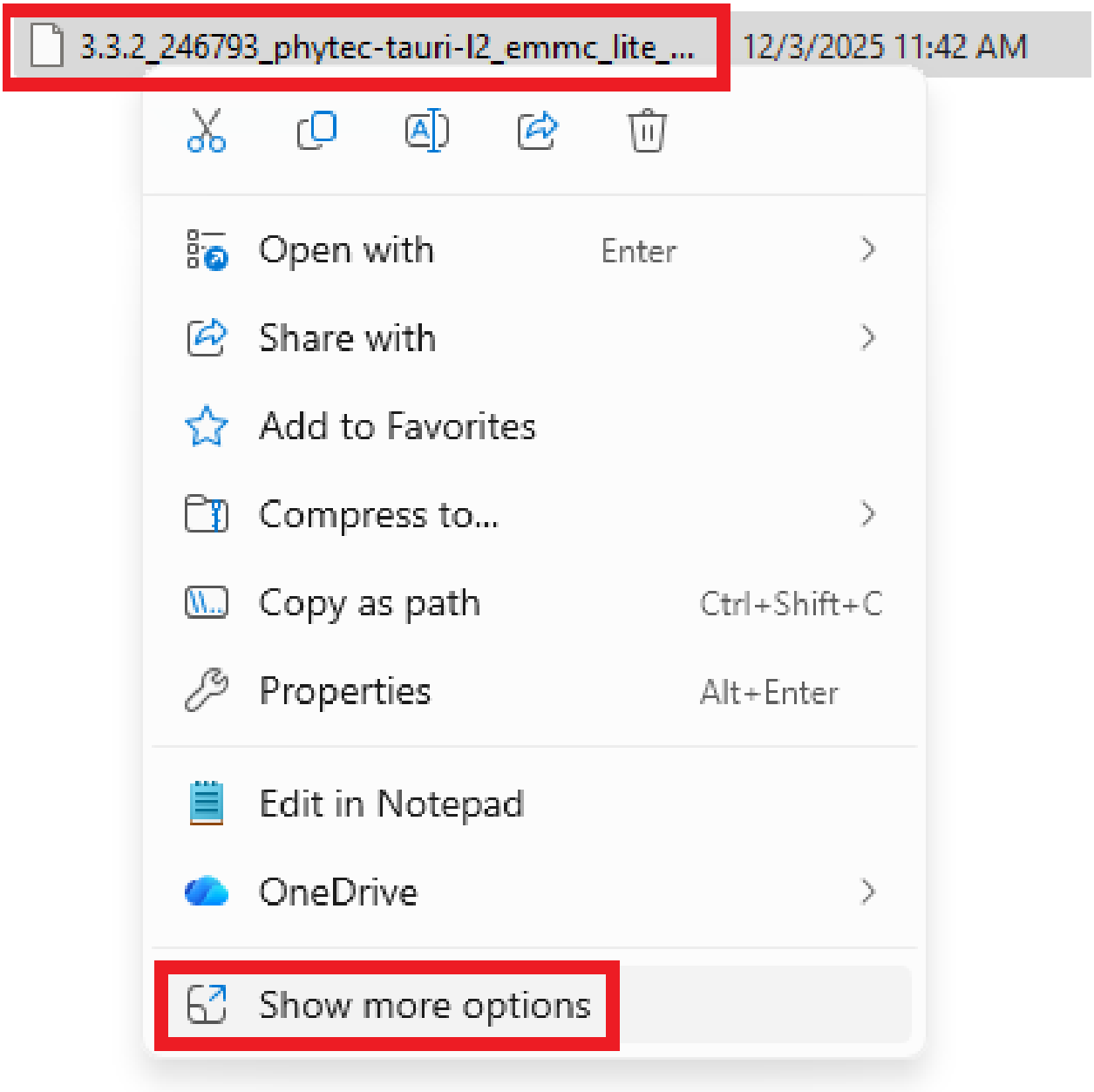
6.4 How to read the hash of a file on your PC via 7-zip?

Precondition:

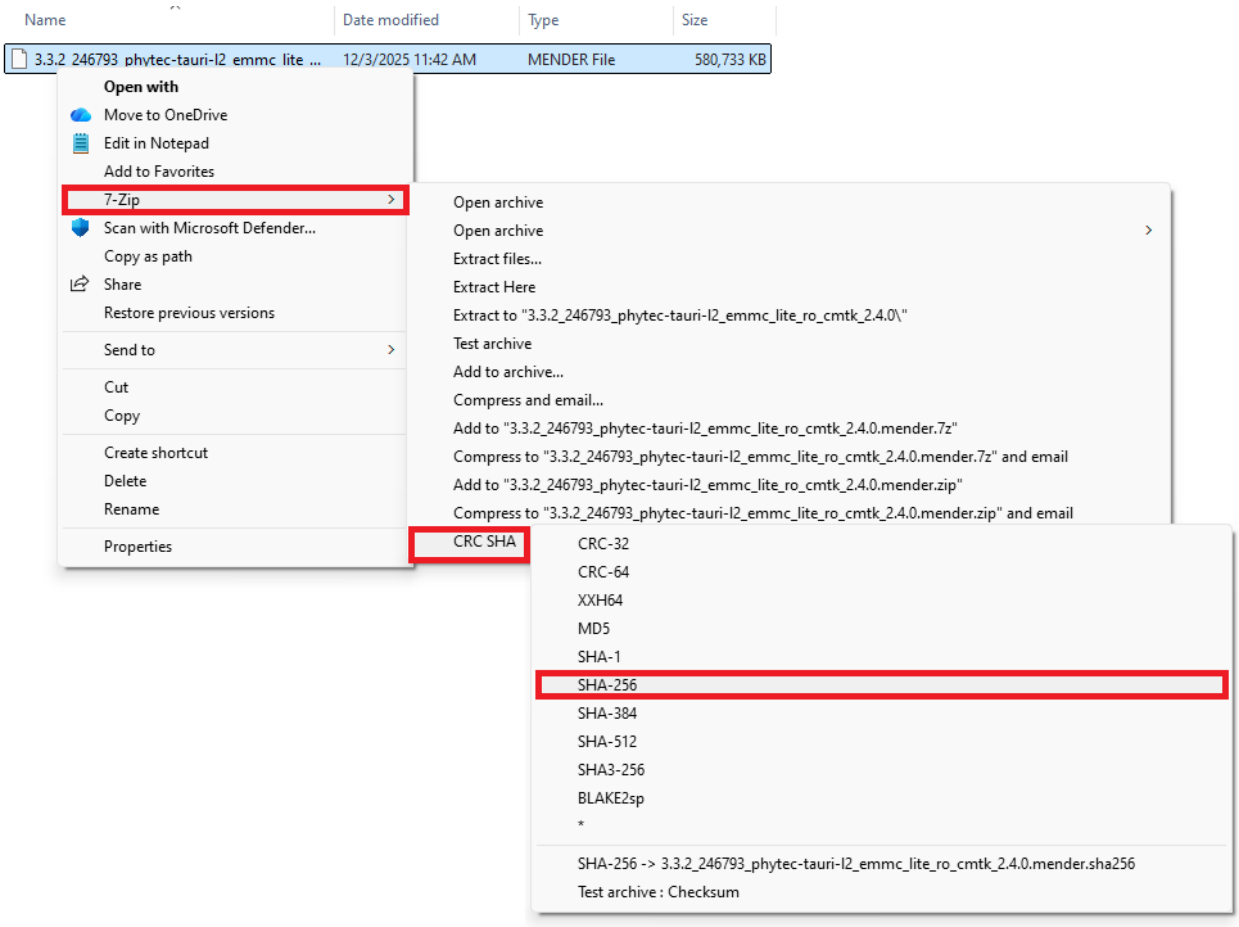
- A file is downloaded from BUP.
- The archiver program 7-zip is installed on the PC.

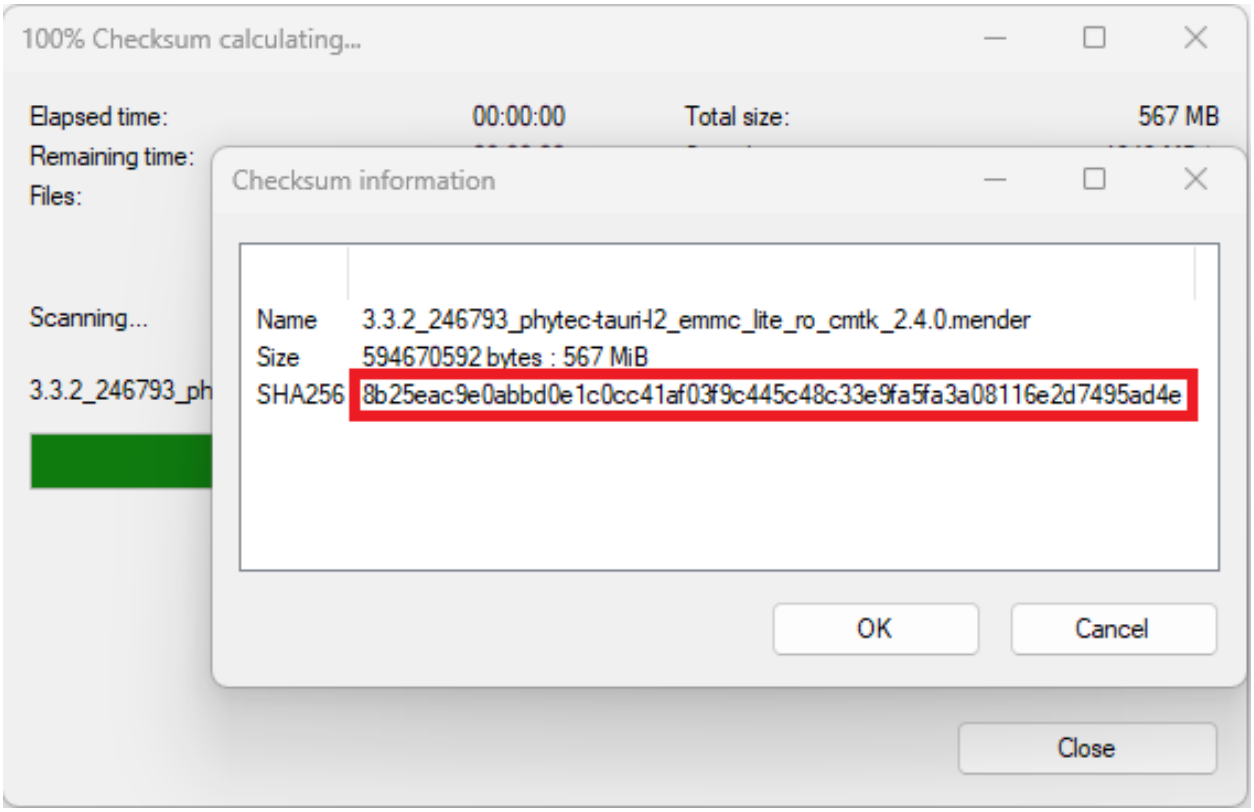
Steps:

1. Right click on file in folder.
2. Click “Show more options”.
3. Navigate to “7-zip > CRC SHA > SHA-256”
4. Click on “SHA-256”
5. Read the displayed hash.



6.4.1 General Settings


Name
Date modified
Type
Size
3.3.2_246793_phytec-tauri-l2_emmc_lite_... 12/3/2025 11:42 AM MENDER File 580,733 KB
Open with
Move to OneDrive
Edit in Notepad
Add to Favorites
7-Zip
Scan with Microsoft Defender...
Copy as path
Share
Restore previous versions
Send to
Cut
Copy
Create shortcut
Delete
Rename
Properties
Open archive
Open archive
Extract files...
Extract Here
Extract to "3.3.2_246793_phytec-tauri-l2_emmc_lite_ro_cmtk_2.4.0\"
Test archive
Add to archive...
Compress and email...
Add to "3.3.2_246793_phytec-tauri-l2_emmc_lite_ro_cmtk_2.4.0.mender.7z"
Compress to "3.3.2_246793_phytec-tauri-l2_emmc_lite_ro_cmtk_2.4.0.mender.7z" and email
Add to "3.3.2_246793_phytec-tauri-l2_emmc_lite_ro_cmtk_2.4.0.mender.zip"
Compress to "3.3.2_246793_phytec-tauri-l2_emmc_lite_ro_cmtk_2.4.0.mender.zip" and email
CRC SHA
CRC-32
CRC-64
XXH64
MD5
SHA-1
SHA-256
SHA-384
SHA-512
SHA3-256
BLAKE2sp
*
SHA-256 -> 3.3.2_246793_phytec-tauri-l2_emmc_lite_ro_cmtk_2.4.0.mender.sha256
Test archive : Checksum

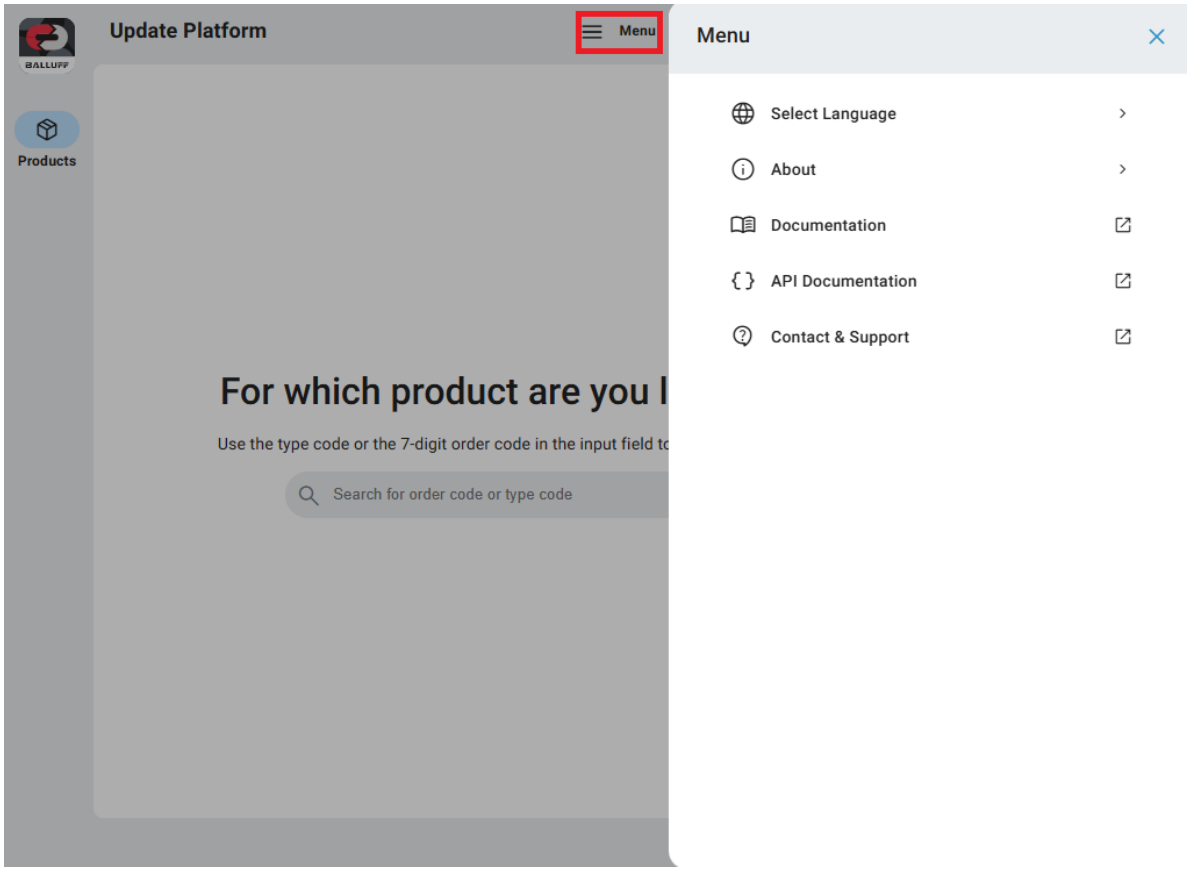


Change language

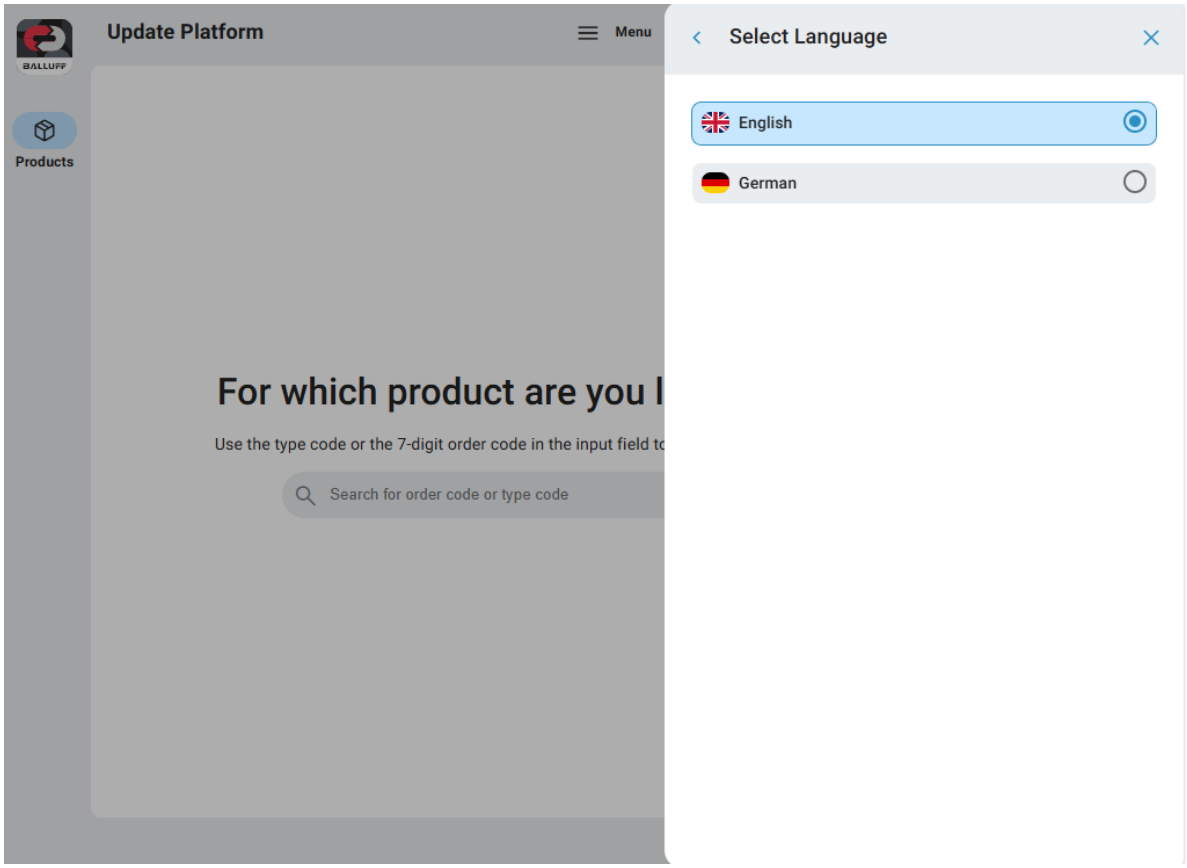
Note

You should already be on the Balluff Update Plaform URL.

- Click on the menu button on the top right corner.



- Click on **Select Language**.
- Select your prefered language.



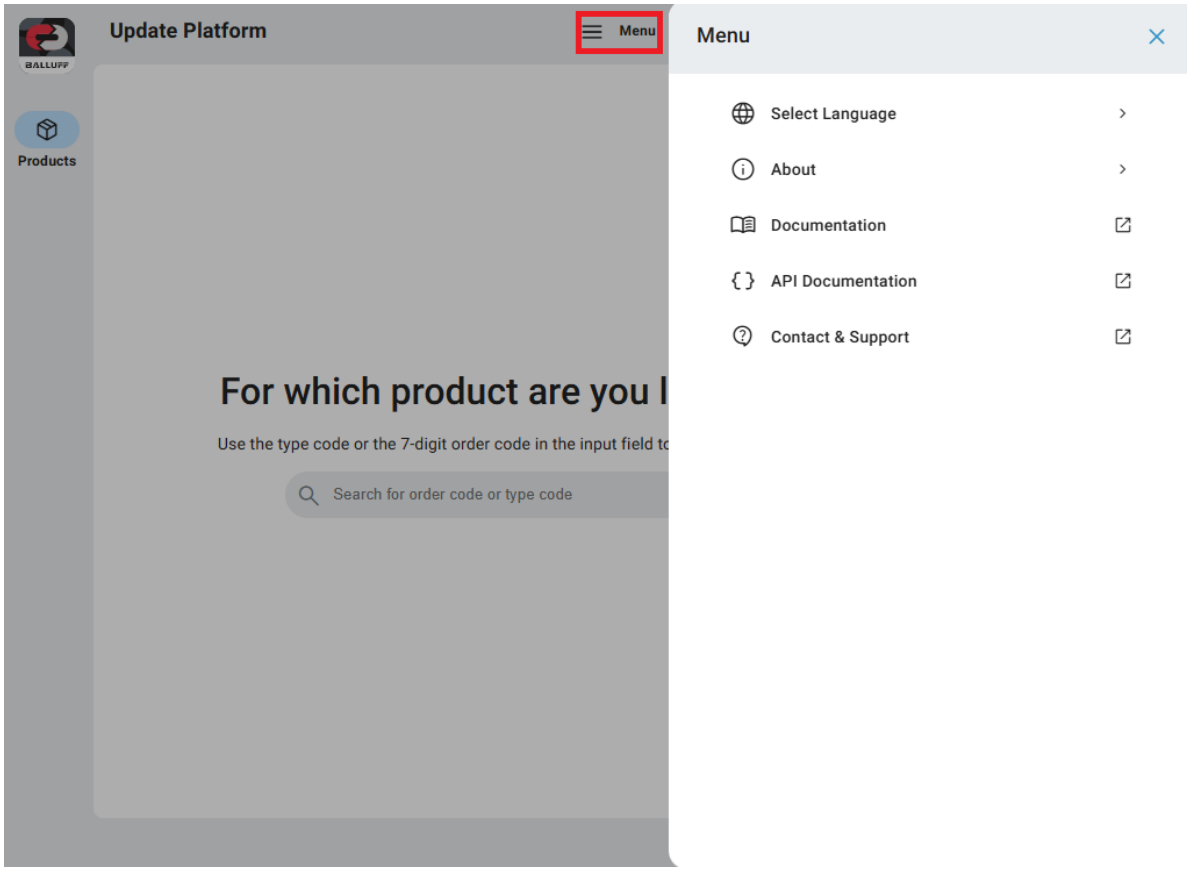
- Click on the grey background to close the menu.

Get current version

Note

You should already be on the Balluff Update Plaform URL.

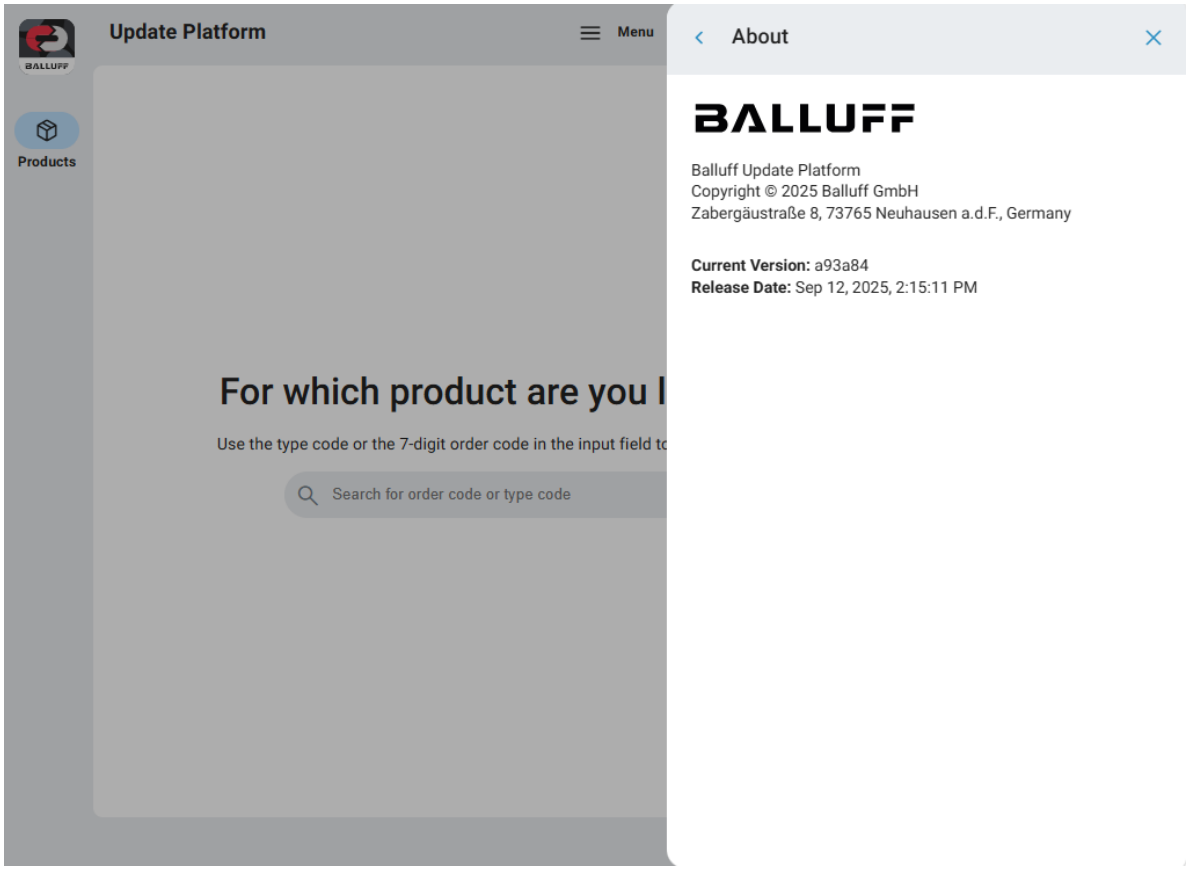
- Click on the menu button on the top right corner.



- Click on **About**.

  Information is displayed:

  - Company address
  - Current Version
  - Release Date

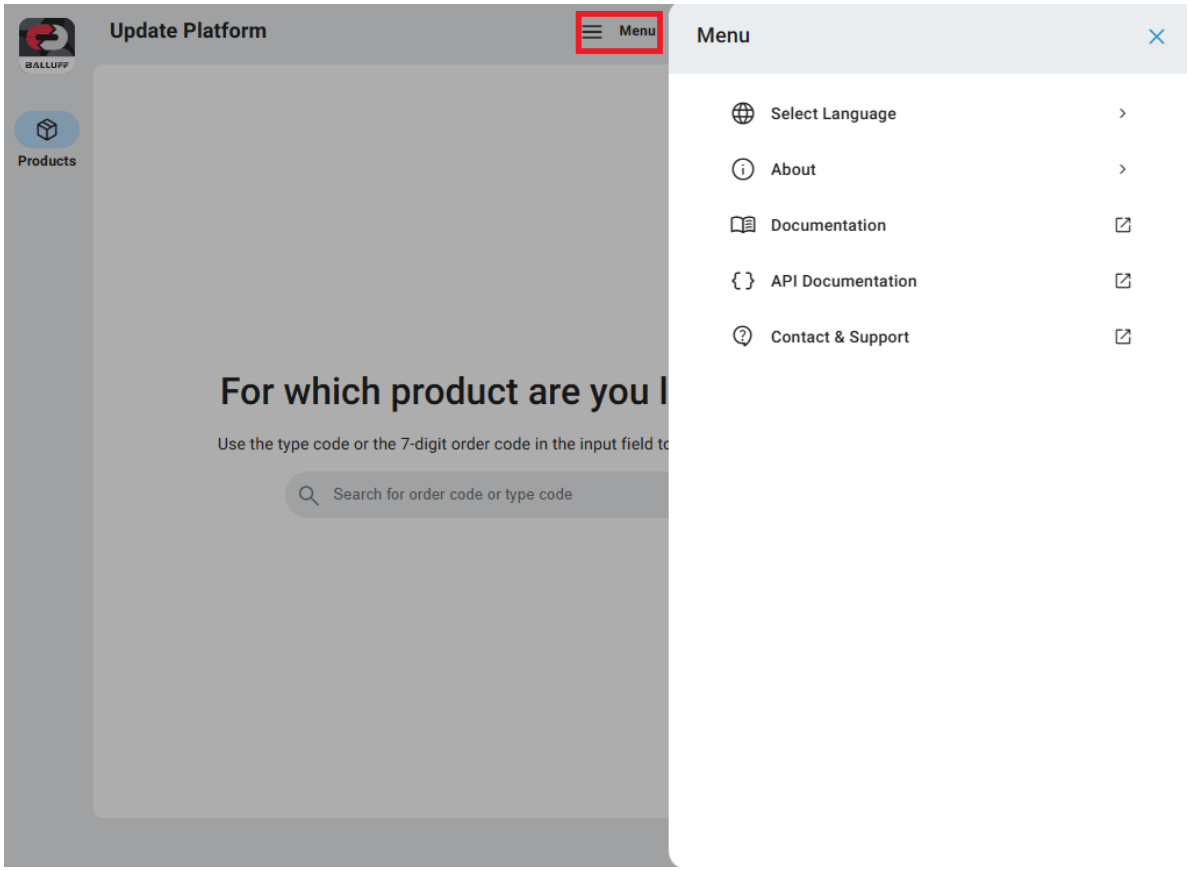


API Documentation

Note

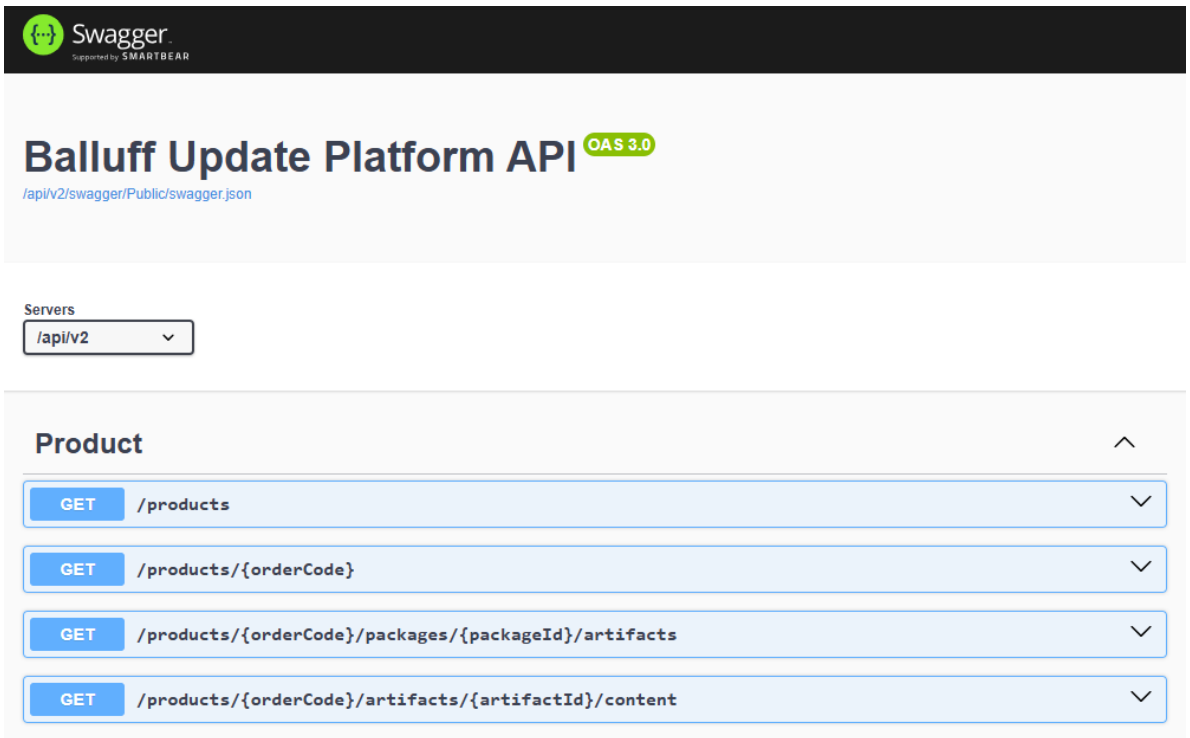
You should already be on Balluff Update Plaform URL.

- Click on the menu button on the top right corner.



- Click on **API Documentation**.

  A swagger API document appears including the API endpoints usable for update automation.

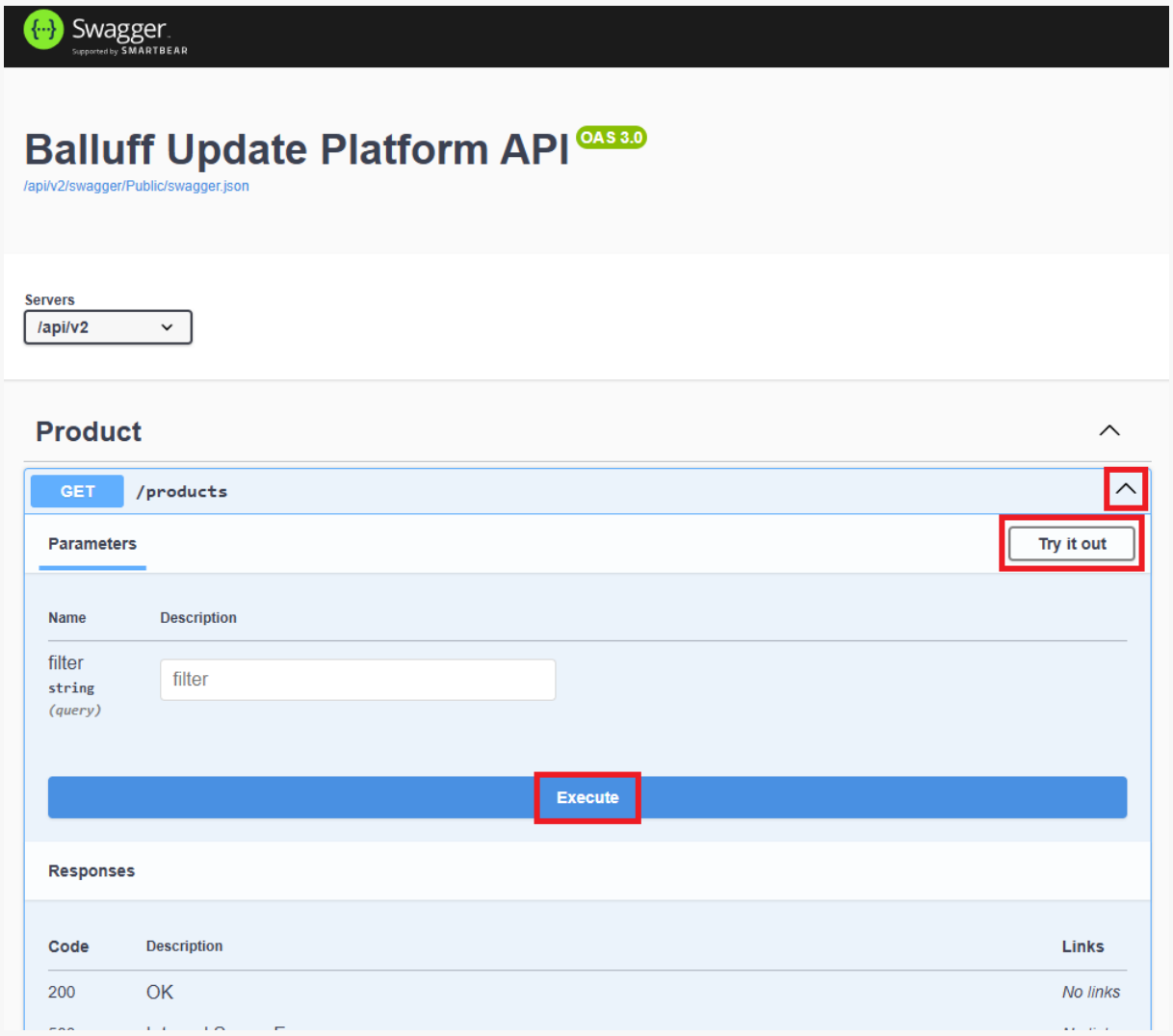


Note

The URL for a complete request can look like this: https://update.balluff.systems/api/v2/products

Hint

You can try out each endpoint receiving real live data.



Headquarters and Technical Service Hubs

www.balluff.com/go/contact

Headquarters and Technical Service Hub Region EMEA	**Technical Service Hub Region APAC**	**Technical Service Hub Region Americas**
Balluff GmbH Zabergäustraße 8 73765 Neuhausen a.d.F. Germany	Balluff Automation (Shanghai) Co., Ltd. No. 800 Chengshan Rd, 8F, Building A, Yunding International Commercial Plaza 200125, Pudong, Shanghai	Balluff Inc. 8125 Holton Drive Florence, KY 41042 USA

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