

Create batch serials via API

A **batch serial** groups several individual serial numbers under one batch (parent) serial number. Batch serials are created through the ERP API — send one batch serial together with all the serials that belong to it in a single request.

Only creating is exposed through the API. There are no API endpoints for listing, updating or deleting batch serials.

1. Authentication

All requests must be authenticated with an OAuth2 access token. Get the token by logging in with your username and password, as described in the [API documentation, section OAuth2 → Login \(Password Grant\)](#).

The login call returns an `access_token`, which you send with every request:

```
Authorization: Bearer <access_token>
```

The account you log in with needs the **Create batch Serial** permission (`create-batch-serials`). The *admin* and *super-admin* roles have it by default.

2. Endpoint

```
POST https://erpapi-<tenant>.dewesoft.com/v1/batch-serials
```

Use your own company's API host — for example `https://erpapi-erp.dewesoft.com/v1/batch-serials`.
Required headers:

```
Authorization: Bearer <access_token>
Content-Type: application/json
Accept: application/json
```

3. Request body

The example below creates **one** batch serial with **two** serial items:

```
{
  "serial_number": "BATCH-0001",
  "related_serials": [
    {
      "serial_1": {
        "sn": "SN-AAA-001",
        "production_date": "2026-08-17 14:12:00"
      },
      "serial_2": {
        "sn": "SN-BBB-001",
        "production_date": "2026-08-17 14:12:00"
      }
    },
    {
      "serial_1": {
        "sn": "SN-AAA-002",
        "production_date": "2026-08-18 08:30:00"
      },
      "serial_2": {
        "sn": "SN-BBB-002",
        "production_date": "2026-08-18 08:30:00"
      }
    }
  ]
}
```

If an item has only one serial number, set `serial_2` to `null` or leave it out:

```
{
  "serial_1": { "sn": "SN-AAA-003", "production_date": "2026-08-18 09:00:00" },
  "serial_2": null
}
```

4. Fields

Field	Required	Description
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<code>serial_number</code>	yes	Serial number of the batch (parent). Must be unique — a batch serial with the same number cannot be created twice.
<code>related_serials</code>	no	List of serial items that belong to this batch. Each entry is one item.
<code>related_serials[].serial_1.sn</code>	yes	First serial number of the item.
<code>related_serials[].serial_2.sn</code>	no	Second serial number (alias) of the same item. Use <code>null</code> when the item has only one serial number.
<code>production_date</code>	no	Production date of that serial, format <code>YYYY-MM-DD HH:MM:SS</code> .

`production_date` is kept for reference on the batch serial record only — it is not written onto the individual serial.

5. How serial numbers are matched

For every item in `related_serials` the system looks for an existing serial before creating a new one:

- All serial numbers are converted to **UPPERCASE**, so lower case input is fine.
- An existing serial is matched by its serial number *or* its alias, in either order — `serial_1` and `serial_2` can be swapped.
- If a serial with only one number exists, the second number from the request is saved as its **alias**.
- If no matching serial exists, a new one is created: `serial_1` becomes the serial number and `serial_2` the alias.
- All matched and newly created serials are then linked to the batch serial.

If any of the serial numbers in the request already belongs to a **lot on stock**, the whole request is rejected with the message *"Same serials on stock already exists. Exiting."* and nothing is saved.

6. Trying it out

To send a test request, use any API client (Postman, Insomnia, or your own integration): set the method and address from step **2. Endpoint**, add the three headers listed there, and paste the JSON from step **3. Request body**. A successful request returns the created batch serial together

with its linked serials.

7. Common errors

Message	Cause
Unauthenticated / 401	Missing, wrong or expired <code>access_token</code> .
This action is unauthorized / 403	The user does not have the <code>create-batch-serials</code> permission.
The serial number field is required	<code>serial_number</code> is missing from the request body.
Create resource failed	A batch serial with this <code>serial_number</code> already exists.
Same serials on stock already exists. Exiting.	One of the listed serials is already assigned to a lot on stock.

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