

In-App Notifications (The Bell)

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Base URL: `http://localhost:8765/api/v1` (local) — `https://dev.api.nexgate.co/api/v1` (staging)

“ **This document is ONLY for the in-app notification bell** — the  icon, its red badge, and the list that opens when you tap it. It is **not** about push notifications on the lock screen, email, SMS, or chat unread badges. Those are different systems; [Part 0](#) tells you which one you need.

v1.0 — verified end to end on staging on 2026-09-18: one account liked another's post, the owner's badge went from 0 to 1, and the bell list showed "joshdoe liked your post" pointing at the right post. Every JSON sample below is a real staging response.

Short Description: Everything that happens to a user while they are not looking — a like, a new follower, an order shipped, a ticket bought — is saved as one row in their bell list. This API reads that list, counts unread rows for the badge, marks rows read, and deletes them. The server also sends a live `notification.added` event on the existing event stream so the badge moves without the app polling.

Hints:

- Every endpoint needs `Authorization: Bearer <accessToken>`. A user only ever sees their own rows — there is no way to read someone else's bell.
 - **Pages start at 1, not 0.** `page=0` returns `400 "Page index must not be less than zero"`.
 - **The row's `title` is the whole sentence** ("joshdoe liked your post"). `message` is an optional second line (a snippet of the post or comment). It is an empty string when there is nothing to quote, e.g. a photo-only post. Never show an empty grey line.
 - `createdAt` and `readAt` **carry no timezone. They are UTC.** Append `Z` before parsing, or "2 minutes ago" will be off by your offset.
 - **Tapping a row opens `targetType` + `targetId`.** If your app does not know the `targetType`, stay on the bell list. That rule is what lets the backend add new notification types without breaking old app versions ([Part 3](#)).
 - Ignore unknown keys inside `data`. It carries values the server used to build the sentence; some of them are internal.
-

Part 0 — Is this the right document?

You are building...	System	Where
The  icon, its badge, the list of "X liked your post" rows	In-app notifications (this doc)	<code>/api/v1/notifications/*</code> + <code>notification.added</code> on <code>/api/v1/events</code>
A banner on the lock screen when the app is closed	Push (Firebase)	Not live yet. Needs the app to register its device token first — separate doc
Unread counts on chat threads	Chat	<code>chatbox-api-doc.md</code> — <code>unread.changed</code>
Email and SMS	Notification server	Nothing for the app to do

The same event can reach a user through several of these at once. A like creates **one bell row** and, once push is live, **one push**. They are independent: reading the bell row does not clear the push, and vice versa.

Part 1 — How the bell works



What the app does, screen by screen

Moment	Call	Why
App starts or comes back to the foreground	<code>GET /notifications/unread-count</code>	The event stream was not connected while you were away; this is the truth

Moment	Call	Why
<code>notification.added</code> arrives	none — set the badge to <code>unreadCount</code> from the event	The event already carries the new count
User opens the bell	<code>GET /notifications/me?page=1&size=20</code>	Newest first
User scrolls to the bottom	<code>GET /notifications/me?page=2...</code> while <code>hasNext</code> is <code>true</code>	
User taps a row	<code>PUT /notifications/{id}/read</code> , then open <code>targetType</code> / <code>targetId</code>	Mark read first so the badge is right when they come back
"Mark all as read" button	<code>PUT /notifications/read-all</code>	Then set the badge to 0 locally
Swipe to delete	<code>DELETE /notifications/{id}</code>	
"Clear read" button	<code>DELETE /notifications/read</code>	Removes every row already read

Things the server does NOT tell you live

- **Marking read sends no event.** If the same user has the app open on a phone and a tablet and reads on one, the other keeps its old badge until it next calls `unread-count`. Call it whenever the app returns to the foreground.
- **Deleting sends no event** either. Update your list locally.

The live event

The bell rides the **same** stream the chat uses — `GET /api/v1/events` (see `chatbox-api-doc.md` → "SSE stream" for connecting, reconnecting with `Last-Event-ID`, and why web needs fetch-based streaming). Do not open a second stream for notifications.

Event	Data	Meaning
<code>notification.added</code>	<code>{"type": "SOC_POST_LIKED", "unreadCount": 4}</code>	A row was added to this user's bell. <code>unreadCount</code> is the new total, counted after the row was saved

`type` lets you do something special for a few types (a sound for a new order, for example). For everything else, just update the badge.

Part 2 — The notification object

Every list and single-row endpoint returns rows in this shape. Real staging row:

```

{
  "id": "6e902bb6-9b38-49c6-825e-22b951f39584",
  "userId": "02db7d92-b426-47b2-9171-cf15339c1376",
  "shopId": null,
  "serviceId": "2b5f3f0c-6d6e-4c4a-a10a-34b622a1fc68",
  "serviceType": "SOCIAL",
  "targetType": "POST",
  "targetId": "2b5f3f0c-6d6e-4c4a-a10a-34b622a1fc68",
  "title": "joshdoe liked your post",
  "message": "",
  "type": "SOC_POST_LIKED",
  "priority": "LOW",
  "isRead": false,
  "data": {
    "type": "SOC_POST_LIKED",
    "actor": { "name": "joshdoe" },
    "postId": "2b5f3f0c-6d6e-4c4a-a10a-34b622a1fc68",
    "targetId": "2b5f3f0c-6d6e-4c4a-a10a-34b622a1fc68",
    "targetType": "POST",
    "mailAccount": "general"
  },
  "createdAt": "2026-09-18T19:18:40.736493",
  "readAt": null
}

```

Field	Type	Description
<code>id</code>	UUID	The row. Use it to mark read or delete
<code>userId</code>	UUID	The owner — always the signed-in user
<code>shopId</code>	UUID / null	Set when the row is about one of the user's shops (new order, low stock...)
<code>serviceId</code>	string	Legacy — do not use. Kept for older apps. Use <code>targetId</code>
<code>serviceType</code>	string	Which area of the app it belongs to — use it for filter tabs. See values
<code>targetType</code>	string	Which screen a tap opens. See Part 3
<code>targetId</code>	string / null	The id that screen needs. <code>null</code> for screens that need none (e.g. <code>WALLET</code>)

Field	Type	Description
<code>title</code>	string	The sentence to show. Always present
<code>message</code>	string	Optional second line — up to ~80 characters of the post, comment or review. Can be "" (e.g. a photo-only post) — hide the line when empty
<code>type</code>	string	The exact notification type, e.g. <code>SOC_POST_LIKED</code> , <code>ORD_SHIPPED</code> . 136 exist; new ones will be added. Do not switch on it for navigation — use <code>targetType</code>
<code>priority</code>	string	<code>LOW</code> , <code>NORMAL</code> , <code>MEDIUM</code> , <code>HIGH</code> , <code>URGENT</code> . Use it for styling only (e.g. bold <code>HIGH</code> / <code>URGENT</code> rows)
<code>isRead</code>	boolean	<code>false</code> until the user reads it
<code>data</code>	object	The values used to build the sentence. Useful for avatars (<code>actor.name</code>) or extra text. Ignore keys you do not know
<code>createdAt</code>	string	When it happened. ISO 8601, UTC, no offset
<code>readAt</code>	string / null	When it was marked read. UTC, no offset

`serviceType` values

For filter tabs ("All", "Social", "Orders"...) and for [endpoint 5](#).

Value	Covers
<code>SOCIAL</code>	Likes, comments, follows, mentions, reposts
<code>CHAT</code>	Group invites, join requests, offers, missed calls, meetings
<code>LIVE</code>	Live streams and Spaces
<code>ORDER</code>	Orders you bought or sold
<code>SHOP</code>	Your shop: applications, stock, reviews, WhatsApp setup
<code>CART</code>	Items in your cart
<code>CHECKOUT</code>	Checkout sessions
<code>PAYMENT</code>	Payments made and received
<code>WALLET</code>	Wallet top-ups, balance, payouts

Value	Covers
INSTALLMENT	Installment plans and dues
GROUP_PURCHASE	Group buying
EVENT	Events, tickets, bookings
USER	Your account: security, sessions, devices
PROMOTIONAL	Offers and announcements
ADMIN	Only admins ever receive these

Part 3 — Where a tap goes (targetType)

Map each targetType you support to a screen, passing targetId when the table says it carries one. **Anything else — a targetType you have not mapped, or CUSTOM / NONE — stays on the bell list, with the row marked read.** Never crash and never show an error on an unknown value; the backend adds new values over time.

targetType	targetId is...	Opens
POST	post id	The post
COMMENT	comment id	The comment, inside its post
POLL	poll id	The poll
STREAM	stream id	A live stream
PROFILE	account id	Somebody's profile
FOLLOW_REQUESTS	—	Pending follow requests
REPORT_HISTORY	—	The user's reports
MODERATION_NOTICE	report id	A moderation decision
CONVERSATION	conversation id	A chat thread
CHAT_LIST	—	The chat list
GROUP_INVITES	conversation id	Group invites
GROUP_JOIN_REQUESTS	conversation id	Join requests for a group you manage
CALL	call id	A call (e.g. missed-call details)
MEETING	meeting id	A meeting
SPACE	space id	A Space

targetType	targetId is...	Opens
OFFER	offer id	A personalised offer in chat
SHOP_INBOX	shop id	The shop's chat inbox
ORDER	order id	An order you bought
SHOP_ORDER	order id	An order your shop received
ORDER_TRACKING	order id	Delivery tracking
CART	—	The cart
PRODUCT	product id	A product
INVENTORY	shop id	The shop's stock screen
DISPUTE	dispute id	A dispute
REVIEW	review id	A review
GROUP_PURCHASE	group id	A group purchase
AGREEMENT	agreement id	An installment agreement
SHOP	shop id	A shop's public page
SHOP_DASHBOARD	shop id	Your shop's dashboard
SHOP_APPLICATION	shop id	Your shop application
WABA_SETTINGS	shop id	The shop's WhatsApp settings
DOWNLOAD	order id	Digital download for an order
TRANSACTION	transaction id	One transaction
TRANSACTION_HISTORY	—	All transactions
CHECKOUT	session id	A checkout session
WALLET	—	The wallet
PAYOUT_SETTINGS	—	Payout settings
OTP_SCREEN	—	The code entry screen
EVENT	event id	An event
EVENT_DASHBOARD	event id	Organiser's dashboard for an event
EVENTS_LIST	—	The events list
TICKET	ticket id	A ticket
BOOKING	booking id	A booking
MY_BOOKINGS	booking id	My bookings, scrolled to that booking
CLAIM	claim id	An organiser's fund claim
SCANNER_MODE	event id	The ticket scanner for an event

targetType	targetId is...	Opens
EVENT_REVIEW	event id	Review an event you attended
HOME	—	Home
ONBOARDING	—	Finish onboarding
ACCOUNT_SETTINGS	—	Account settings
SECURITY_SETTINGS	—	Security settings
ACTIVE_SESSIONS	—	Signed-in sessions
CHAT_DEVICES	—	Chat devices
APPEAL_FORM	—	Appeal a decision
ADMIN_* (7 values)	varies	Admin panel only — the consumer apps can treat these as unknown
CUSTOM, NONE	—	Stay on the bell list

If the target no longer exists (the post was deleted, for example), the screen's own endpoint returns 404. Show that screen's normal "not available" state; do not delete the bell row automatically.

Standard Response Format

All API responses follow a consistent structure using our Globe Response Builder pattern:

Success Response Structure

```
{
  "success": true,
  "httpStatus": "OK",
  "message": "Operation completed successfully",
  "action_time": "2026-09-18T19:23:04.211589898",
  "data": { }
}
```

Error Response Structure

```
{
  "success": false,
```

```
"httpStatus": "BAD_REQUEST",
"message": "Error description",
"action_time": "2026-09-18T19:23:06.226159977",
"data": "Error description"
}
```

Standard Response Fields

Field	Type	Description
<code>success</code>	boolean	Always <code>true</code> for successful operations, <code>false</code> for errors
<code>httpStatus</code>	string	HTTP status name (OK, BAD_REQUEST, NOT_FOUND, etc.)
<code>message</code>	string	Human-readable message describing the operation result
<code>action_time</code>	string	ISO 8601 timestamp of when the response was generated
<code>data</code>	object/string	Response payload for success, error details for failures

Responses may also carry `action` and `context` (always `null` here) — ignore them.

The page object

Endpoints 1, 2, 5 and 6 return this inside `data`:

```
{
  "notifications": [ /* notification objects, newest first */ ],
  "currentPage": 1,
  "pageSize": 20,
  "totalElements": 1,
  "totalPages": 1,
  "hasNext": false,
  "hasPrevious": false,
  "isFirst": true,
  "isLast": true
}
```

Field	Description
<code>notifications</code>	The rows, newest first

Field	Description
<code>currentPage</code>	The page you asked for (starts at 1)
<code>pageSize</code>	Rows per page
<code>totalElements</code>	Rows across all pages
<code>totalPages</code>	Number of pages
<code>hasNext</code>	Ask for <code>currentPage + 1</code> while this is <code>true</code>
<code>hasPrevious</code> , <code>isFirst</code> , <code>isLast</code>	Convenience flags

“ New rows can arrive while the user scrolls, which shifts every later page by one. If you see the same `id` twice, keep one.

HTTP Method Badge Standards

- **GET** - **GET** - Green (Safe, read-only operations)
- **PUT** - **PUT** - Yellow (Update)
- **DELETE** - **DELETE** - Red (Remove resources)

Endpoints

#	Method	Path	Use it for
1	GET	<code>/notifications/me</code>	The bell list
2	GET	<code>/notifications/unread</code>	Only unread rows
3	GET	<code>/notifications/unread-count</code>	The badge
4	GET	<code>/notifications/summary</code>	Total / unread / read counts
5	GET	<code>/notifications/service/{serviceType}</code>	A filter tab
6	GET	<code>/notifications/shop/{shopId}</code>	A shop owner's shop notifications
7	GET	<code>/notifications/{notificationId}</code>	One row
8	PUT	<code>/notifications/{notificationId}/read</code>	Mark one read
9	PUT	<code>/notifications/read</code>	Mark several read

#	Method	Path	Use it for
10	PUT	/notifications/read-all	Mark everything read
11	DELETE	/notifications/{notificationId}	Delete one
12	DELETE	/notifications/batch	Delete several
13	DELETE	/notifications/read	Delete every read row

1. List My Notifications

Purpose: The bell list — every row for the signed-in user, read and unread, newest first.

Endpoint: GET {base_url}/notifications/me

Access Level: ☐ Protected

Authentication: Bearer Token

Request Headers:

Header	Type	Required	Description
Authorization	string	Yes	Bearer <accessToken>

Query Parameters:

Parameter	Type	Required	Description	Validation	Default
page	integer	No	Page number	Min: 1	1
size	integer	No	Rows per page	Min: 1	20

Success Response JSON Sample (staging, 2026-09-18):

```
{
  "success": true,
  "httpStatus": "OK",
  "message": "Notifications retrieved successfully",
  "action_time": "2026-09-18T19:23:04.211589898",
  "data": {
    "notifications": [
      {
        "id": "6e902bb6-9b38-49c6-825e-22b951f39584",
```

```

        "userId": "02db7d92-b426-47b2-9171-cf15339c1376",
        "shopId": null,
        "serviceId": "2b5f3f0c-6d6e-4c4a-a10a-34b622a1fc68",
        "serviceType": "SOCIAL",
        "targetType": "POST",
        "targetId": "2b5f3f0c-6d6e-4c4a-a10a-34b622a1fc68",
        "title": "joshdoe liked your post",
        "message": "",
        "type": "SOC_POST_LIKED",
        "priority": "LOW",
        "isRead": false,
        "data": { "actor": { "name": "joshdoe" }, "postId": "2b5f3f0c-6d6e-4c4a-a10a-34b622a1fc68" },
        "createdAt": "2026-09-18T19:18:40.736493",
        "readAt": null
    }
],
"currentPage": 1,
"pageSize": 5,
"totalElements": 1,
"totalPages": 1,
"hasNext": false,
"hasPrevious": false,
"isFirst": true,
"isLast": true
}
}

```

Success Response Fields: see [the page object](#) and [the notification object](#). With no rows, `notifications` is `[]` and `message` is `"No notifications found"`.

Error Response JSON Sample (staging, `page=0`):

```

{
  "success": false,
  "httpStatus": "BAD_REQUEST",
  "message": "Page index must not be less than zero",
  "action_time": "2026-09-18T19:23:06.226159977",
  "data": "Page index must not be less than zero"
}

```

Standard Error Types:

- `400 BAD_REQUEST`: `page` is 0 or negative
 - `401 UNAUTHORIZED`: Token missing, invalid or expired
-

2. List Unread Notifications

Purpose: Only rows with `isRead=false`, newest first — for an "Unread" tab.

Endpoint: `GET` `{base_url}/notifications/unread`

Access Level: `[[` Protected

Authentication: Bearer Token

Query Parameters:

Parameter	Type	Required	Description	Validation	Default
page	integer	No	Page number	Min: 1	1
size	integer	No	Rows per page	Min: 1	20

Success Response: identical in shape to [endpoint 1](#).

“ Marking a row read removes it from this list, so every later page shifts up by one. If you mark rows read while the user scrolls this tab, refetch from page 1 instead of asking for the next page.

Standard Error Types:

- `400 BAD_REQUEST`: `page` is 0 or negative
 - `401 UNAUTHORIZED`: Token missing, invalid or expired
-

3. Get Unread Count

Purpose: The number on the badge.

Endpoint: `GET` `{base_url}/notifications/unread-count`

Access Level: ☐ Protected

Authentication: Bearer Token

Success Response JSON Sample (staging):

```
{
  "success": true,
  "httpStatus": "OK",
  "message": "Unread count retrieved successfully",
  "action_time": "2026-09-18T19:23:05.489594598",
  "data": { "unreadCount": 1 }
}
```

Success Response Fields:

Field	Description
unreadCount	Rows with <code>isRead=false</code> . Show <code>99+</code> above 99

Call it when the app starts and every time it returns to the foreground. While the app is open, `notification.added` keeps the badge current without calling this.

Standard Error Types:

- `401 UNAUTHORIZED`: Token missing, invalid or expired

4. Get Summary

Purpose: Total, unread and read counts in one call.

Endpoint: `GET` `{base_url}/notifications/summary`

Access Level: ☐ Protected

Authentication: Bearer Token

Success Response JSON Sample (staging):

```
{
  "success": true,
  "httpStatus": "OK",
  "message": "Notification summary retrieved successfully",
}
```

```
"action_time": "2026-09-18T19:23:04.820411225",
"data": { "total": 1, "unread": 1, "read": 0 }
}
```

Success Response Fields:

Field	Description
total	All rows
unread	Rows with <code>isRead=false</code> — same number as endpoint 3
read	<code>total - unread</code>

Standard Error Types:

- `401 UNAUTHORIZED`: Token missing, invalid or expired

5. List by Area (`serviceType`)

Purpose: One filter tab — e.g. only `SOCIAL`, or only `ORDER`.

Endpoint: `GET` `{base_url}/notifications/service/{serviceType}`

Access Level: `□□` Protected

Authentication: Bearer Token

Path Parameters:

Parameter	Type	Required	Description	Validation
serviceType	string	Yes	The area	One of the <code>serviceType</code> values, upper case. An unknown value returns an empty list, not an error

Query Parameters:

Parameter	Type	Required	Description	Validation	Default
page	integer	No	Page number	Min: 1	1
size	integer	No	Rows per page	Min: 1	20

Success Response: identical in shape to [endpoint 1](#).

Standard Error Types:

- `400 BAD_REQUEST`: `page` is 0 or negative
 - `401 UNAUTHORIZED`: Token missing, invalid or expired
-

6. List a Shop's Notifications

Purpose: For a shop owner — only the rows about one of their shops (new orders, low stock, reviews...).

Endpoint: `GET` `{base_url}/notifications/shop/{shopId}`

Access Level: `[]` Protected (returns only the signed-in user's own rows for that shop — another person's shop gives an empty list)

Authentication: Bearer Token

Path Parameters:

Parameter	Type	Required	Description	Validation
shopId	UUID	Yes	The shop	Valid UUID

Query Parameters:

Parameter	Type	Required	Description	Validation	Default
page	integer	No	Page number	Min: 1	1
size	integer	No	Rows per page	Min: 1	20

Success Response: identical in shape to [endpoint 1](#); every row has this `shopId`.

Standard Error Types:

- `400 BAD_REQUEST`: `shopId` is not a UUID, or `page` is 0 or negative
 - `401 UNAUTHORIZED`: Token missing, invalid or expired
-

7. Get One Notification

Purpose: Fetch a single row — e.g. when the app opens from a link that carries a notification id.

Endpoint: **GET** `{base_url}/notifications/{notificationId}`

Access Level: ☐ Protected (own rows only)

Authentication: Bearer Token

Path Parameters:

Parameter	Type	Required	Description	Validation
notificationId	UUID	Yes	The row	Valid UUID

Success Response JSON Sample:

```
{
  "success": true,
  "httpStatus": "OK",
  "message": "Notification retrieved successfully",
  "action_time": "2026-09-18T19:23:04.211589898",
  "data": { /* one notification object */ }
}
```

Error Response JSON Sample (staging — a row that does not exist or is not yours):

```
{
  "success": false,
  "httpStatus": "NOT_FOUND",
  "message": "Notification not found or access denied",
  "action_time": "2026-09-18T19:23:06.905963899",
  "data": "Notification not found or access denied"
}
```

Standard Error Types:

- `401 UNAUTHORIZED`: Token missing, invalid or expired
- `404 NOT_FOUND`: No such row, or it belongs to someone else (the two are deliberately indistinguishable)

8. Mark One as Read

Purpose: Call when the user taps a row.

Endpoint: **PUT** `{base_url}/notifications/{notificationId}/read`

Access Level: ☐ Protected (own rows only)

Authentication: Bearer Token

Path Parameters:

Parameter	Type	Required	Description	Validation
notificationId	UUID	Yes	The row	Valid UUID

Success Response JSON Sample:

```
{
  "success": true,
  "httpStatus": "OK",
  "message": "Notification marked as read",
  "action_time": "2026-09-18T19:25:00.000000000",
  "data": null
}
```

Marking a row that is already read succeeds and changes nothing — safe to retry. The badge is not sent back; subtract 1 locally.

Standard Error Types:

- 401 UNAUTHORIZED**: Token missing, invalid or expired
- 404 NOT_FOUND**: No such row, or not yours

9. Mark Several as Read

Purpose: Mark a selection read in one call.

Endpoint: **PUT** `{base_url}/notifications/read`

Access Level: ☐ Protected (own rows only)

Authentication: Bearer Token

Request JSON Sample:

```
{
  "notificationIds": [
    "6e902bb6-9b38-49c6-825e-22b951f39584",
    "0c1d2e3f-4a5b-6c7d-8e9f-0a1b2c3d4e5f"
  ]
}
```

Request Body Parameters:

Parameter	Type	Required	Description	Validation
notificationIds	array of UUID	Yes	Rows to mark read	Not empty

Success Response JSON Sample:

```
{
  "success": true,
  "httpStatus": "OK",
  "message": "2 notification(s) marked as read",
  "action_time": "2026-09-18T19:25:00.000000000",
  "data": null
}
```

All or nothing: if even one id is missing or belongs to someone else, **no row is changed** and the call returns `400`. Drop ids of rows you have deleted before sending.

Error Response JSON Sample:

```
{
  "success": false,
  "httpStatus": "BAD_REQUEST",
  "message": "Some notifications not found or access denied",
  "action_time": "2026-09-18T19:25:00.000000000",
  "data": "Some notifications not found or access denied"
}
```

Standard Error Types:

- `400 BAD_REQUEST`: A listed id is missing or not yours; nothing was changed
 - `401 UNAUTHORIZED`: Token missing, invalid or expired
 - `422 UNPROCESSABLE_ENTITY`: `notificationIds` is empty
-

10. Mark All as Read

Purpose: The "Mark all as read" button.

Endpoint: **PUT** `{base_url}/notifications/read-all`

Access Level: ☐ Protected

Authentication: Bearer Token

Success Response JSON Sample:

```
{
  "success": true,
  "httpStatus": "OK",
  "message": "All notifications marked as read",
  "action_time": "2026-09-18T19:25:00.000000000",
  "data": null
}
```

Set the badge to 0 locally afterwards.

Standard Error Types:

- `401 UNAUTHORIZED`: Token missing, invalid or expired

11. Delete One

Purpose: Swipe to delete.

Endpoint: **DELETE** `{base_url}/notifications/{notificationId}`

Access Level: ☐ Protected (own rows only)

Authentication: Bearer Token

Path Parameters:

Parameter	Type	Required	Description	Validation
notificationId	UUID	Yes	The row	Valid UUID

Success Response JSON Sample:

```
{
  "success": true,
  "httpStatus": "OK",
  "message": "Notification deleted successfully",
  "action_time": "2026-09-18T19:25:00.000000000",
  "data": null
}
```

Deleting an **unread** row lowers the unread count — adjust the badge. Deleted rows cannot be recovered.

Standard Error Types:

- `401 UNAUTHORIZED`: Token missing, invalid or expired
- `404 NOT_FOUND`: No such row, or not yours

12. Delete Several

Purpose: Delete a selection in one call.

Endpoint: **DELETE** `{base_url}/notifications/batch`

Access Level: ☐ Protected (own rows only)

Authentication: Bearer Token

“ This DELETE carries a JSON body. Most HTTP clients support that, but some default helpers drop it — check yours sends `Content-Type: application/json` and the body.

Request JSON Sample:

```
{
  "notificationIds": [
    "6e902bb6-9b38-49c6-825e-22b951f39584"
  ]
}
```

Request Body Parameters:

Parameter	Type	Required	Description	Validation
notificationIds	array of UUID	Yes	Rows to delete	Not empty

Success Response JSON Sample:

```
{
  "success": true,
  "httpStatus": "OK",
  "message": "1 notification(s) deleted successfully",
  "action_time": "2026-09-18T19:25:00.000000000",
  "data": null
}
```

All or nothing, like endpoint 9: one bad id and nothing is deleted.

Standard Error Types:

- `400 BAD_REQUEST`: A listed id is missing or not yours; nothing was deleted
- `401 UNAUTHORIZED`: Token missing, invalid or expired
- `422 UNPROCESSABLE_ENTITY`: `notificationIds` is empty

13. Delete All Read

Purpose: The "Clear read" button — removes every row already read. Unread rows stay.

Endpoint: **DELETE** `{base_url}/notifications/read`

Access Level: ☐ Protected

Authentication: Bearer Token

Success Response JSON Sample:

```
{
  "success": true,
  "httpStatus": "OK",
  "message": "3 read notification(s) deleted successfully",
  "action_time": "2026-09-18T19:25:00.000000000",
  "data": 3
}
```

Success Response Fields:

Field	Description
data	How many rows were deleted (a number, not an object)

The badge does not change — only read rows were removed.

Standard Error Types:

- `401 UNAUTHORIZED`: Token missing, invalid or expired
-

Integration Checklist

- ☐ Badge loads from `unread-count` on app start **and** on every return to the foreground
 - ☐ `notification.added` on the existing `/api/v1/events` stream sets the badge from `unreadCount` — no second stream
 - ☐ Pages start at 1; paging stops when `hasNext` is `false`; duplicate `id`s are dropped
 - ☐ `title` is shown as the sentence; `message` line hidden when `""`
 - ☐ `createdAt` parsed as UTC
 - ☐ A tap marks the row read, then opens `targetType` + `targetId`
 - ☐ **An unknown `targetType` stays on the bell list — no crash, no error**
 - ☐ A `404` from the target screen shows that screen's "not available" state
 - ☐ Badge adjusted locally after mark-read and delete (no event comes back)
 - ☐ Batch mark-read and batch delete send only ids still in the list
 - ☐ Unknown keys in `data` and unknown `type` values are ignored
-

Quick Reference Guide

Common HTTP Status Codes

- `200 OK`: Successful request
- `400 Bad Request`: Invalid request data (e.g. `page=0`, an id that is not yours in a batch)
- `401 Unauthorized`: Authentication required/failed
- `404 Not Found`: Row does not exist or is not yours
- `422 Unprocessable Entity`: Validation errors (empty `notificationIds`)
- `500 Internal Server Error`: Server error

Authentication

- **Bearer Token:** Include `Authorization: Bearer <accessToken>` in headers

Data Format Standards

- **Dates:** ISO 8601, **UTC without an offset** (`2026-09-18T19:18:40.736493`)
- **IDs:** UUID strings
- **Pagination:** `page` (from 1) and `size`; response carries `currentPage`, `totalPages`, `hasNext`

Revision #6

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