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Paginated lists in our API: page, per_page and reading every page without wasting requests

WhatsApp & APIs

CODE	VERSION	COUNTRY · LANGUAGE
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Interweb Angola
RLX Angola, Lda. · Group RLX Holdings
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https://www.meu.interweb.ao/knowledgebase/2762

Paginated lists in our API: page, per_page and reading every page without wasting requests

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The short answer: list operations return their results in pages. You pick the page with `page` (the first is 1) and how many results you want with `per_page`, from 1 to 100; without it you get 10. The answer's `meta` gives the total and how many pages there are.

The parameters

Parameter	What it is
`page`	The page number. The first is 1.
`per_page`	Results per page, from 1 to 100. Default 10.

```
curl "https://api.interweb.ao/v1/domains?page=2&per_page=50" -H "Authorization: Bearer $RLX_API_KEY"
```

What the answer contains

```
{
"data": [ ... ],
"meta": { "page": 2, "per_page": 50, "total": 120, "total_pages": 3 }
}
```

Field in `meta`	What it is
`page`	The page returned.
`per_page`	Results per page.

Field in `meta`	What it is
`total`	Results in total.
`total_pages`	Pages in total.

Reading every page

1. **Start at** `page=1`, ideally with `per_page=100`.
2. **Add the results in** `data` to what you already have.
3. **Carry on while** `page` **is lower than** `total_pages`, asking for the next page.
4. **Respect the limits:** each page counts as one request. If you get a `429`, wait for `Retry-After` and continue where you stopped.

> **A long list with a small** `per_page` **wastes requests.** 120 domains at 10 per page take 12 requests; at 100 per page, 2. With 90 requests per minute per key, the difference shows. See **the request limits**.

Which lists are paginated, and their filters

List	Order	Filter
`GET /v1/domains`	Next to expire first	`status`, for example `?status=active`
`GET /v1/services`	Most recent first	`status`, for example `?status=active`
`GET /v1/invoices`	Most recent first	`status`, for example `?status=unpaid`
`GET /v1/tickets`	Most recent reply first	`status`, for example `?status=open`
`GET /v1/servers`		
`GET /v1/catalog/products`		`group_id`

List	Order	Filter
`GET /v1/extras`		`kind`, for example `?kind=ssl`
`GET /v1/account/contacts`, `GET /v1/account/users`	For users, the owner first	
`GET /v1/reseller/services`		

Filter before you paginate.
If you only want unpaid invoices, `?status=unpaid&per_page=100` brings what matters in far fewer pages than reading every invoice and filtering afterwards. To find out whether something changed without reading it all again, see also **webhook or polling**.

RECOMMENDED

Want to try pagination without writing code? The documentation, reached from the API page, has the Playground on every list operation.

See the API page →

SEE ALSO

- API request limits: per key, per account and per task, the headers and what to do after a 429
- Our API's error codes: what each one means, and which ones are worth retrying
- Domains through the API: checking a name, registering, renewing and transferring with credit
- Invoices through the API: listing, PDF, paying with credit, renewal cycle and cancellations
- Our API in one page: what you can automate in your account, area by area
- Webhook or polling: how one system learns that something changed in another

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Interweb Angola

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