

Sisukord

Creating a POSTMAN collection file

3

Importing the file into Postman

86

Creating a POSTMAN collection file

Open Notepad (Start → Notepad) and paste in the code below:

```
{
  "info": {
    "_postman_id": "6de645db-4111-4d25-aeb3-016b7bb4c0cf",
    "name": "Directo API",
    "description": "# Directo API Documentation\n\nWelcome to the Directo API - a comprehensive RESTful API for accessing and managing your ERP data including items, orders, customers, invoices, stock levels, and more.\n\n--\n\n## □ Getting Started\n\n### Prerequisites\n\n- Active Directo ERP account\n  \n- API key (obtain from your Directo administrator)\n  \n- Basic understanding of REST APIs and HTTP methods\n  \n\n### Quick Start Guide\n\n1. **Configure Authentication**: Set your API key in the collection's Authorization tab or update the `X-Directo-Key` header\n\n2. **Set Variables**: Configure `baseUrl` and `version` in collection variables\n\n3. **Choose Format**: Set the `Accept` header to `application/json` or `application/xml`\n\n4. **Make Your First Request**: Try the `\"All items\"` request to retrieve your item catalog\n\n\n### Base URL & Versioning\n\n**Base URL Structure**:*\n\n```\n{{baseUrl}}/v{{version}}/{resource}\n```\n\n**Current Configuration**:*\n\n- `baseUrl`: `https://login.directo.ee/apidirect`\n- `version`: `1` (current API version)\n\n**Example Full URL**:*\n\n```\nhttps://login.directo.ee/apidirect/v1/items\n```\n\nThe API uses versioning to ensure backward compatibility. Always specify the version number in your requests.\n\n--\n\n## □ Authentication\n\nThe Directo API uses **API Key authentication** for secure access.\n\n### How to Authenticate\n\nInclude your API key in the request header:\n\n```\nhttp\nX-Directo-Key: YOUR_API_KEY_HERE\n```\n\n### Getting Your API Key\n\nContact your Directo system administrator to obtain an API key. Each key is associated with specific permissions and access levels.\n\n### Security Best Practices\n\n- **Never expose your API key** in client-side code or public repositories\n  \n- Store API keys securely using environment variables\n  \n- Rotate keys periodically\n  \n- Use different keys for development and production environments\n  \n\n--\n\n## □ Response Formats (JSON vs XML)\n\nThe API supports both JSON and XML response formats. Control the format using the `Accept` header.\n\n### JSON Format (Recommended)\n\n```\nhttp\nAccept: application/json\n```\n\n**Example Request**:*\n\n```\nbash\ncurl -X GET\n\"{{baseUrl}}/v{{version}}/items\" \\n -H \"X-Directo-Key: YOUR_API_KEY\\n\\n -H \"Accept: application/json\n```\n\n### XML Format\n\n```\nhttp\nAccept: application/xml\n```\n\n**Example Request**:*\n\n```\nbash\ncurl -X GET\n\"{{baseUrl}}/v{{version}}/items\" \\n -H \"X-Directo-Key: YOUR_API_KEY\\n\\n -H \"Accept: application/xml\n```\n\n--\n\n## □ Advanced Filtering (Key Feature)\n\n### ERP-Style Filtering - The Power of Directo API\n\n**CRITICAL FEATURE**: The Directo API supports the exact same powerful filtering capabilities as the Directo ERP system
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itself.**\n\nThis is one of the most powerful features of the Directo API. **Filters can be applied like default filters inside the ERP system. All fields can be used for filters except calculated fields.**\n\n#### What This Means for Developers\n\n1. **Seamless Integration**: Any filter that works in your Directo ERP interface can be applied via the API using query parameters\n\n2. **No Learning Curve**: If you know how to filter in the ERP, you already know how to filter via the API\n\n3. **Maximum Flexibility**: Filter by ANY field in the response data (except calculated fields)\n\n4. **Powerful Queries**: Combine multiple filters to create complex queries without custom endpoints\n\n\n#### Understanding Filterable vs Calculated Fields\n\n**[] Filterable Fields (Stored in Database)**\n\nThese are fields that are stored directly in the database and can be used for filtering:\n\n- **Item Fields**: `code`, `name`, `class`, `status`, `country`, `unit`, `price`, `cost`, `supplier\_code`, `barcode`, `weight`, `volume`\n\n- **Order/Invoice Fields**: `number`, `date`, `status`, `customer\_code`, `customer\_name`, `total`, `currency`, `payment\_terms`, `delivery\_date`, `warehouse`\n\n- **Customer Fields**: `code`, `name`, `country`, `city`, `address`, `phone`, `email`, `vat\_number`, `payment\_terms`, `credit\_limit`\n\n- **Stock Fields**: `item\_code`, `warehouse`, `quantity`, `reserved\_quantity`, `available\_quantity`, `location`, `batch\_number`, `serial\_number`\n\n- **Line Item Fields**: `row\_item`, `row\_quantity`, `row\_price`, `row\_description`, `row\_discount`, `row\_warehouse`\n\n- **Custom Data Fields**: Any custom fields you've defined in your ERP system (found in `datafields` array)\n\n\n**[] Calculated Fields (Cannot Be Filtered)**\n\nThese are fields computed on-the-fly and cannot be used for filtering:\n\n- **Computed Totals**: Fields like `total\_with\_vat`, `line\_total`, `discount\_amount` (when calculated from other fields)\n\n- **Derived Values**: `available\_stock` (when calculated as `quantity - reserved`), `profit\_margin` (calculated from price and cost)\n\n- **Aggregations**: `total\_orders`, `average\_price`, `sum\_quantity` (when aggregated from multiple records)\n\n- **Formatted Values**: Display-only fields like `formatted\_date`, `formatted\_price` (when they're just formatting of other fields)\n\n- **Virtual Fields**: Fields that exist only in the API response but not in the database\n\n\n#### How to Identify Calculated Fields\n\n1. **Check the ERP Interface**: If you cannot filter by a field in the ERP system's filter dialog, it's likely calculated\n\n2. **Test the Filter**: Try filtering by the field via API - if it returns no results or an error, it's calculated\n\n3. **Look for Patterns**: Fields with names like
`total\_\\` ,
`calculated\_\\` ,
`formatted\_\\` ,
`display\_\\` , or
`are often calculated`\n\n4. **Consult Documentation**: Check your ERP system's field documentation or ask your administrator\n\n\n#### Practical Examples: Filterable vs Calculated\n\n**Example 1: Item Stock**\n\n`http\\` WORKS: GET /items?quantity=>100\\` (quantity is stored in database)\n\nDOESN'T WORK: GET /items?available\_stock=>100\\` (if

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available_stock = quantity - reserved, it's calculated)\n\n ```\n\n**Example
2: Order Totals**\n\n```\n\n http\n\n WORKS: GET /orders?row_price=>1000\n
(row_price is stored per line item)\n\n MIGHT NOT WORK: GET
/orders?order_total=>5000\n\n (if order_total is sum of all line items, it's
calculated)\n\n ALTERNATIVE: GET /orders?date=>2025-01-01&status=COMPLETED\n
(then calculate totals in your application)\n\n\n ```\n\n\n**Example 3: Customer
Data**\n\n\n```\n\n http\n\n WORKS: GET /customers?country=EE&city=Tallinn\n
(both are stored fields)\n\n DOESN'T WORK: GET
/customers?full_address=*Tallinn*\n\n (if full_address is concatenation of
address+city+country)\n\n ALTERNATIVE: GET /customers?city=Tallinn\n
(filter by individual stored fields)\n\n\n ```\n\n\n### Basic
Filtering\n\nFilter by exact match using any stored field name:\n\n\n```\n
http\n\nGET {{baseUrl}}/v{{version}}/items?code=9810\n\nGET
{{baseUrl}}/v{{version}}/items?status=UUS\n\nGET
{{baseUrl}}/v{{version}}/orders?number=12345\n\nGET
{{baseUrl}}/v{{version}}/customers?country=EE\n\nGET
{{baseUrl}}/v{{version}}/items?class=KAUP\n\n\n ```\n\n\n**Key Principle**:
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Use the exact field name as it appears in the API response (or as you see it in the ERP system).

Contains Filtering

Partial filtering allows you to search for values **containing** a specific substring.

This works like SQL `'LIKE '%text%'` logic.

Use it when you need flexible filtering for names, codes, descriptions, or any other text fields

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{{baseUrl}}/v{{version}}/customers?name=%john%\n\n\n ```\n\n\n### Comparison
Operators\n\nThe API supports powerful comparison operators for advanced
filtering:\n\n\n#### Greater Than (>)\n\n\n```\n\n http\n\nGET
{{baseUrl}}/v{{version}}/orders?date=>2025-09-01T00:00:00\n\nGET
{{baseUrl}}/v{{version}}/invoices?row_quantity=>5000\n\n\n ```\n\n\n#### Less
Than (<)\n\n\n```\n\n http\n\nGET
{{baseUrl}}/v{{version}}/orders?date=<2025-09-03T00:00:00\n\nGET
{{baseUrl}}/v{{version}}/invoices?row_quantity=<5000\n\n\n ```\n\n\n#### Not
Equal (!)\n\n\n```\n\n http\n\nGET {{baseUrl}}/v{{version}}/items?country!=EE\n\nGET
{{baseUrl}}/v{{version}}/orders?status!=CLOSED\n\nGET
{{baseUrl}}/v{{version}}/customers?payment_terms!=COD\n\n\n ```\n\n\n####
Greater Than or Equal (>=)\n\n\n```\n\n http\n\nGET
{{baseUrl}}/v{{version}}/items?price=>100\n\nGET
{{baseUrl}}/v{{version}}/orders?date=>2025-01-01T00:00:00\n\n\n ```\n\n\n####
Less Than or Equal (<=)\n\n\n```\n\n http\n\nGET
{{baseUrl}}/v{{version}}/items?weight=<5.5\n\nGET
{{baseUrl}}/v{{version}}/orders?date=<2025-12-31T23:59:59\n\n\n ```\n\n\n###
Range Filtering\n\nCombine operators to create ranges (AND logic):\n\n\n```\n
http\n\nGET
{{baseUrl}}/v{{version}}/orders?date=>2025-09-01T00:00:00&date=<2025-09-03T0
0:00:00\n\nGET {{baseUrl}}/v{{version}}/items?quantity=>10&quantity=<100\n\nGET
{{baseUrl}}/v{{version}}/invoices?total=>1000&total=<5000\n\nGET
{{baseUrl}}/v{{version}}/items?price=>50&price=<=200\n\n\n ```\n\n\n### Multiple
Values (OR Logic)\n\nUse comma-separated lists to filter by multiple
values:\n\n\n```\n\n http\n\nGET
{{baseUrl}}/v{{version}}/items?warehouse=AALTR,AIPM,WAREHOUSE1\n\nGET
{{baseUrl}}/v{{version}}/orders?status=NEW,PENDING,PROCESSING\n\nGET
{{baseUrl}}/v{{version}}/customers?country=EE,LV,LT\n\nGET
{{baseUrl}}/v{{version}}/items?class=KAUP,TEENUS,T0ORRAINE\n\n\n ```\n\n\n###

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Timestamp-Based Filtering (Synchronization)\n\nUse the `ts` parameter to retrieve records modified after a specific timestamp (ideal for synchronization):\n\n```\nhttp\nGET\n{{baseUrl}}/v{{version}}/items?ts=>2025-10-01T08:11:05.129Z\nGET\n{{baseUrl}}/v{{version}}/customers?ts=>2025-01-01T00:00:00Z\nGET\n{{baseUrl}}/v{{version}}/orders?ts=>2025-11-20T07:30:00Z\n\n```\n\n**Best Practice**: Store the timestamp of your last successful sync and use it in the next request to fetch only changed records.\n\n### Filtering by Line Item Fields\n\nFor resources with line items (orders, invoices), you can filter by line-level fields:\n\n```\nhttp\nGET\n{{baseUrl}}/v{{version}}/orders?row_item=343443\nGET\n{{baseUrl}}/v{{version}}/invoices?row_quantity=>10\nGET\n{{baseUrl}}/v{{version}}/orders?row_description=Maja\nGET\n{{baseUrl}}/v{{version}}/priceformulas?row_item=343443\n\n```\n\n**Note**: When filtering by line item fields, the API returns the entire document (order/invoice) if ANY line matches the filter.\n\n### Filtering by Custom Data Fields\n\nIf you have custom fields defined in your ERP system (visible in the `datafields` array), you can filter by them:\n\n```\nhttp\nGET\n{{baseUrl}}/v{{version}}/items?data_row_code=BRAND\nGET\n{{baseUrl}}/v{{version}}/items?data_row_code=ART_PROJ,BRAND\nGET\n{{baseUrl}}/v{{version}}/items?data_row_content=0\n\n```\n\n**How to Find Custom Field Names**: Make a request without filters and examine the `datafields` array in the response.\n\n### Complex Filter Combinations\n\nCombine multiple filters to create sophisticated queries:\n\n**Get new orders from the last week for a specific customer:**\n\n```\nhttp\nGET\n{{baseUrl}}/v{{version}}/orders?status=NEW&date=>2025-11-13T00:00:00&customer_code=CUST001\n\n```\n\n**Get items with low stock in specific warehouses, excluding closed items:**\n\n```\nhttp\nGET\n{{baseUrl}}/v{{version}}/items?quantity=<10&warehouse=AALTR,AIPM&status!=CLOSED\n\n```\n\n**Get all customers from Baltic countries with high credit limits:**\n\n```\nhttp\nGET\n{{baseUrl}}/v{{version}}/customers?country=EE,LV,LT&credit_limit=>50000\n\n```\n\n**Get invoices from Q1 2025 with specific payment terms:**\n\n```\nhttp\nGET\n{{baseUrl}}/v{{version}}/invoices?date=>2025-01-01T00:00:00&date=<2025-04-01T00:00:00&payment_terms=NET30\n\n```\n\n**Get items from specific class with price range:**\n\n```\nhttp\nGET\n{{baseUrl}}/v{{version}}/items?class=KAUP&price=>10&price=<100\n\n```\n\n### Common Filter Parameters by Resource\n\n| Parameter | Description | Example | Applicable Resources |\n| --- | --- | --- | --- |\n| `ts` | Timestamp for modified records (ISO 8601) | `2025-10-01T08:11:05.129Z` | All resources |\n| `date` | Date filtering (supports operators) | `>2025-09-01T00:00:00` | Orders, Invoices |\n| `number` | Document number | `12345` or `!001` | Orders, Invoices |\n| `code` | Item/Customer code | `9810` or `CUST001` | Items, Customers |\n| `name` | Name search | `Kalev` | Items, Customers |\n| `row\_item` | Item code in line items | `9810` or `PROD-ABC` | Orders, Invoices, Price Formulas |\n| `status` | Status filter | `UUS`, `CLOSED`, `NEW` | Orders, Items |\n| `country` | Country code (ISO 2-letter) | `EE`, `!EE` | Items, Customers |\n| `warehouse` | Warehouse/stock location code | `AALTR,AIPM` | Items, Stock Levels, Orders

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|\n| `quantity` | Quantity filter (supports operators) | `>100`, `<50` |
Items, Stock Levels |\n| `row_quantity` | Line item quantity (supports
operators) | `>10` | Invoices, Orders |\n| `row_description` | Line item
description text | `Maja` | Invoices, Orders |\n| `closed` | Closed status |
`1` (closed), `0` (open) | Customers, Orders |\n| `class` | Item
class/category | `KAUP`, `TEENUS` | Items |\n| `price` | Price filter
(supports operators) | `>100`, `<=500` | Items |\n| `customer_code` |
Customer identifier | `CUST001` | Orders, Invoices |\n\n### Filter Best
Practices\n\n1. **Start Simple**: Begin with single filters and add
complexity as needed\n    \n2. **Use Timestamp Sync**: Always use `ts`
parameter for incremental synchronization\n    \n3. **Combine
Strategically**: Use multiple filters to reduce data transfer and
processing\n    \n4. **Test in ERP First**: If unsure whether a field is
filterable, test it in the ERP interface first\n    \n5. **Handle Empty
Results**: Empty results might mean filters are too restrictive or field is
calculated\n    \n6. **URL Encode**: Always URL-encode filter values,
especially dates and special characters\n    \n7. **Document Your Filters**:
Keep track of which filters work for your use cases\n    \n\n###
Troubleshooting Filters\n\n**Problem**: Filter returns no results\n\n-
**Check**: Is the field calculated? Try filtering by underlying stored
fields\n    \n- **Check**: Is the value correct? Verify exact field values
in an unfiltered response\n    \n- **Check**: Are operators correct? Use `>`
not `>=` if that's what the ERP uses\n    \n\n**Problem**: Filter seems to
be ignored\n\n- **Check**: Is the field name spelled correctly? Field names
are case-sensitive\n    \n- **Check**: Is the value URL-encoded? Special
characters must be encoded\n    \n- **Check**: Does the field exist in this
resource? Not all fields are available in all resources\n\n\n**Problem**: Unexpected results\n\n- **Check**: Are you using OR logic
(comma) when you meant AND (multiple parameters)?\n    \n- **Check**: For
line item filters, remember the entire document is returned if any line
matches\n    \n\n---\n\n### API Resources & Endpoints\n\nAPI Resources and
Endpoint in this section are samples and doesn't reflect all available
resources. View Postman collection data to get full list.\n\n\nResponse field
list managed in Directo ERP.\n\n\n### Items\n\nManage your product catalog and
inventory items.\n\n**Endpoint:** `GET`
{{baseUrl}}/v{{version}}/items\n\n**Description**: Retrieve item master
data including product codes, names, classifications, pricing, and custom
data fields.\n\n**Use Cases:**\n\n- Retrieve product catalog for e-commerce
integration\n    \n- Sync inventory data to external systems\n    \n- Filter
items by stock location, quantity, or status\n    \n- Export product data
for reporting\n    \n\n**Common Filters:** `code`, `name`, `class`,
`status`, `warehouse`, `quantity`, `country`, `price`, `ts`\n\n**Example
Requests:**\n\n`` http\n# Get all active items\nGET
{{baseUrl}}/v{{version}}/items?status=ACTIVE\n# Get items with low
stock\nGET {{baseUrl}}/v{{version}}/stocklevels?quantity=<10\n# Get items
modified since last sync\nGET
{{baseUrl}}/v{{version}}/items?ts=2025-11-20T07:00:00Z\n# Get items in
specific warehouses\nGET
{{baseUrl}}/v{{version}}/items?warehouse=AALTR,AIPM\n\n``\n\n**Response
Fields:**\n\n- `code`: Item code/SKU\n    \n- `name`: Item
name/description\n    \n- `class`: Item classification\n    \n- `status`:

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Item status\n    \n- `price`: Unit price\n    \n- `cost`: Unit cost\n    \n- `quantity`: Stock quantity\n    \n- `warehouse`: Warehouse location\n    \n- `datafields`: Array of custom data fields\n    \n\n---\n\n\n###  
Customers\n\n\nAccess customer and client information.\n\n\n**Endpoint:** `GET  
{{baseUrl}}/v{{version}}/customers`\n\n\n**Description:** Retrieve customer  
master data including contact information, addresses, payment terms, and  
credit limits.\n\n\n**Use Cases:**\n\n\n- Retrieve customer database for CRM  
integration\n    \n- Sync customer data to external systems\n    \n- Filter  
by country or modification date\n    \n- Export customer lists for  
marketing\n    \n\n\n**Common Filters:** `code`, `name`, `country`, `city`,  
`payment_terms`, `credit_limit`, `closed`, `ts`\n\n\n**Example  
Requests:**\n\n\n`` http\n# Get all customers from Estonia\nGET  
{{baseUrl}}/v{{version}}/customers?country=EE\n# Get customers with high  
credit limits\nGET {{baseUrl}}/v{{version}}/customers?credit_limit=>50000\n#  
Get active customers only\nGET  
{{baseUrl}}/v{{version}}/customers?closed=0\n# Get customers modified since  
last sync\nGET  
{{baseUrl}}/v{{version}}/customers?ts=2025-11-20T07:00:00Z\n\n\n``\n\n\n**Response Fields:**\n\n\n- `code`: Customer code\n    \n- `name`:  
Customer name\n    \n- `country`: Country code (ISO 2-letter)\n    \n-  
`city`: City\n    \n- `address`: Street address\n    \n- `phone`: Phone  
number\n    \n- `email`: Email address\n    \n- `vat_number`: VAT  
registration number\n    \n- `payment_terms`: Payment terms code\n    \n-  
`credit_limit`: Credit limit amount\n    \n- `closed`: Closed status  
(0=active, 1=closed)\n    \n\n\n---\n\n\n### Orders\n\n\nRetrieve sales orders and  
purchase orders.\n\n\n**Endpoint:** `GET  
{{baseUrl}}/v{{version}}/orders`\n\n\n**Description:** Retrieve order  
documents including headers and line items. Supports filtering by date  
ranges, status, customer, and line item details.\n\n\n**Use Cases:**\n\n\n-  
Retrieve order history for reporting\n    \n- Monitor order status for  
fulfillment\n    \n- Filter by date range, status, or customer\n    \n- Sync  
orders to external fulfillment systems\n    \n- Track orders with specific  
items\n    \n\n\n**Common Filters:** `number`, `date`, `status`,  
`customer_code`, `warehouse`, `closed`, `row_item`, `row_quantity`,  
`ts`\n\n\n**Example Requests:**\n\n\n`` http\n# Get orders from date range\nGET  
{{baseUrl}}/v{{version}}/orders?date=>2025-09-01T00:00:00&date=<2025-09-03T0  
0:00:00\n# Get new orders\nGET {{baseUrl}}/v{{version}}/orders?status=NEW\n#  
Get orders containing specific item\nGET  
{{baseUrl}}/v{{version}}/orders?row_item=343443\n# Get orders for specific  
customer\nGET {{baseUrl}}/v{{version}}/orders?customer_code=CUST001\n# Get  
open orders modified today\nGET  
{{baseUrl}}/v{{version}}/orders?closed=0&ts=2025-11-20T00:00:00Z\n\n\n``\n\n\n**Response Fields:**\n\n\n- `number`: Order number\n    \n- `date`:  
Order date\n    \n- `status`: Order status\n    \n- `customer_code`:  
Customer code\n    \n- `customer_name`: Customer name\n    \n- `warehouse`:  
Warehouse code\n    \n- `total`: Order total amount\n    \n- `currency`:  
Currency code\n    \n- `closed`: Closed status\n    \n- `lines`: Array of  
order line items\n    \n    \n- `row_item`: Item code\n    \n    \n-  
`row_quantity`: Quantity\n    \n    \n- `row_price`: Unit price\n    \n    \n- `row_description`: Line description\n    \n\n\n---\n\n\n###  
Invoices\n\n\nAccess invoice data and billing information.\n\n\n**Endpoint:**
```



```
`GET {{baseUrl}}/v{{version}}/invoices`
Description: Retrieve invoice documents including headers and line items. Supports filtering by date ranges, status, customer, and line item details.
Use Cases:
- Retrieve invoice history for accounting
- Export billing data to accounting systems
- Filter by date, status, or customer
- Track invoices with specific items
- Monitor payment status
Common Filters: `number`, `date`, `status`, `customer_code`, `total`, `closed`, `row_item`, `row_quantity`, `ts`
Example Requests:
http# Get invoices from last month
GET {{baseUrl}}/v{{version}}/invoices?date=>2025-10-01T00:00:00&date=<2025-11-01T00:00:00
http# Get unpaid invoices
GET {{baseUrl}}/v{{version}}/invoices?closed=0
http# Get invoices containing specific item
GET {{baseUrl}}/v{{version}}/invoices?row_item=9810
Response Fields:
- `number`: Invoice number
- `date`: Invoice date
- `due_date`: Payment due date
- `status`: Invoice status
- `customer_code`: Customer code
- `customer_name`: Customer name
- `total`: Invoice total amount
- `currency`: Currency code
- `closed`: Payment status
- `lines`: Array of invoice line items
Stock Levels
Monitor inventory levels across warehouses.
Endpoint: `GET {{baseUrl}}/v{{version}}/stocklevels`
Description: Retrieve current stock levels for items across all warehouses. Shows quantity on hand, reserved quantity, and available quantity.
Use Cases:
- Check current inventory levels
- Monitor stock across locations
- Identify low-stock items
- Sync inventory to e-commerce platforms
- Calculate available-to-promise
Common Filters: `item_code`, `warehouse`, `quantity`, `reserved_quantity`, `ts`
Example Requests:
http# Get stock levels for specific item
GET {{baseUrl}}/v{{version}}/stocklevels?item_code=9810
http# Get low stock items
GET {{baseUrl}}/v{{version}}/stocklevels?quantity=<10
http# Get stock in specific warehouse
GET {{baseUrl}}/v{{version}}/stocklevels?warehouse=AALTR
http# Get stock changes since last sync
GET {{baseUrl}}/v{{version}}/stocklevels?ts=2025-11-20T07:00:00Z
Response Fields:
- `item_code`: Item code
- `warehouse`: Warehouse code
- `quantity`: Quantity on hand
- `reserved_quantity`: Reserved/allocated quantity
- `available_quantity`: Available quantity (may be calculated)
- `location`: Storage location within warehouse
Stock Levels with Serial/Batch Numbers
Retrieve detailed stock information including serial numbers and batch numbers.
Endpoint: `GET {{baseUrl}}/v{{version}}/stocklevels_sn`
Description: Retrieve stock levels with serial number and batch number tracking. Essential for lot-tracked and serialized inventory.
Use Cases:
- Track serialized inventory (electronics, equipment)
- Manage batch-tracked items (food, pharmaceuticals)
- Trace product lots for recalls
- Monitor expiration dates by batch
- Audit serial number assignments
Common Filters: `item_code`, `warehouse`, `serial_number`, `batch_number`, `ts`
Example Requests:
http# Get serialized stock for specific item
GET {{baseUrl}}/v{{version}}/stocklevels_sn?item_code=LAPTOP001
http# Get stock by
```

```

batch number\nGET
{{baseUrl}}/v{{version}}/stocklevels_sn?batch_number=BATCH2025001\n# Get
serialized stock in warehouse\nGET
{{baseUrl}}/v{{version}}/stocklevels_sn?warehouse=AALTR\n\n
``\n\n**Response Fields:**\n\n- `item_code`: Item code\n    \n-
`warehouse`: Warehouse code\n    \n- `serial_number`: Serial number (for
serialized items) or Batch/lot number (for batch-tracked items)\n    \n-
`quantity`: Quantity (typically 1 for serialized items)\n    \n-
`expiration_date`: Expiration date (for batch-tracked items)\n    \n\n---
\n\n### Allocations\n\nView inventory allocations and
reservations.\n\n**Endpoint:** `GET
{{baseUrl}}/v{{version}}/allocations`\n\n**Description**:
```

Retrieve inventory allocations showing which items are reserved for specific orders or purposes.

Use Cases:

- Check reserved inventory
- Monitor order allocations
- Prevent overselling
- Calculate available-to-promise
- Track allocation by order

Common Filters: `code`, `warehouse`, `ts`

Example Requests:

```
http\n# Get allocations for specific item\nGET
{{baseUrl}}/v{{version}}/allocations?code=9810\n# Get allocations in
warehouse\nGET {{baseUrl}}/v{{version}}/allocations?warehouse=AALTR\n\n
``\n\n**Response Fields:**\n\n- `item_code`: Item code\n    \n-
`warehouse`: Warehouse code\n    \n- `quantity`: Allocated quantity\n
\n\n---\n\n### Item Classes\n\nRetrieve item classification and category
data.\n\n**Endpoint:** `GET
{{baseUrl}}/v{{version}}/itemclasses`\n\n**Description**:
```

Retrieve item class/category master data used to classify and organize items in the ERP system.

Use Cases:

- Get product categories for navigation
- Sync classification hierarchies
- Filter items by class
- Build category trees for e-commerce

Common Filters: `code`, `name`, `parent\_code`, `ts`

Example Requests:

```
http\n# Get all item classes\nGET {{baseUrl}}/v{{version}}/itemclasses\n# Get classes
modified since last sync\nGET
{{baseUrl}}/v{{version}}/itemclasses?ts=2025-11-20T07:00:00Z\n\n
``\n\n**Response Fields:**\n\n- `code`: Class code\n    \n- `name`: Class
name\n    \n- `parent_code`: Parent class code (for hierarchies)\n    \n-
`description`: Class description\n    \n\n---\n\n### Price
Formulas\n\nAccess pricing rules and formulas.\n\n**Endpoint:** `GET
{{baseUrl}}/v{{version}}/priceformulas`\n\n**Description**:
```

Retrieve pricing formulas and rules used to calculate dynamic prices based on various conditions.

Use Cases:

- Retrieve pricing rules for specific items
- Calculate dynamic prices in external systems
- Sync pricing logic
- Audit pricing formulas

Common Filters: `row\_item`, `customer\_code`, `ts`

Example Requests:

```
http\n# Get price formulas for specific item\nGET
{{baseUrl}}/v{{version}}/priceformulas?row_item=343443\n# Get all price
formulas\nGET {{baseUrl}}/v{{version}}/priceformulas\n# Get formulas
modified since last sync\nGET
{{baseUrl}}/v{{version}}/priceformulas?ts=2025-11-20T07:00:00Z\n\n
``\n\n**Response Fields:**\n\n- `row_item`: Item code\n    \n-
`customer_code`: Customer code (if customer-specific)\n    \n- `formula`:
Pricing formula\n    \n- `discount_percent`: Discount percentage\n    \n-
```

```

`valid_from`: Valid from date\n    \n- `valid_to`: Valid to date\n    \n\n-
\n\n### Deletions\n\nTrack deleted records for synchronization
purposes.\n\n**Endpoint:** `GET
{{baseUrl}}/v{{version}}/deleted`\n\n**Description**: Retrieve records that
have been deleted from the ERP system. Essential for maintaining data
consistency in external systems.\n\n**Use Cases:**\n\n- Sync deletions to
external systems\n    \n- Maintain data consistency\n    \n- Audit deleted
records\n    \n- Clean up orphaned references\n    \n\n**Common Filters:**
`resource_type`, `ts`\n\n**Example Requests:**\n\n`` http\n# Get all
deletions since last sync\nGET
{{baseUrl}}/v{{version}}/deleted?ts=2025-11-20T07:00:00Z\n# Get deleted
items only\nGET {{baseUrl}}/v{{version}}/deleted?resource_type=items\n\n
``\n\n**Response Fields:**\n\n- `resource_type`: Type of deleted resource
(items, customers, orders, etc.)\n    \n- `resource_id`: ID of deleted
resource\n    \n- `deleted_at`: Deletion timestamp\n    \n\n---\n\n## □
Response Structure\n\n### Success Response (HTTP 200)\n\n**JSON
Format:**\n\n`` json\n[\n    {\n        \"code\": \"1011\", \n
        \"class\": \"KAUP\", \n
        \"name\": \"Kommid Lily, Kalev\", \n
        \"price\": 12.50, \n
        \"quantity\": 150, \n
        \"warehouse\": \"AALTR\", \n
        \"datafields\": [\n            {\n
                \"code\": \"TEST_ARTIKKEL\", \n
                \"content\": \"Test lisaväli
sisu\" \n
            }, \n
            {\n
                \"code\": \"IS_WEIGHT\", \n
                \"content\": \"0\" \n
            }, \n
            {\n
                \"code\": \"VISUAL_VERIFICATION\", \n
                \"content\": \"0\" \n
            }, \n
            {\n
                \"code\": \"VENSAFE\", \n
                \"content\": \"0\" \n
            } \n
        ], \n
        {\n
            \"code\": \"1012\", \n
            \"class\": \"KAUP\", \n
            \"name\": \"Šokolaad Kalev\", \n
            \"price\": 8.75, \n
            \"quantity\": 200, \n
            \"warehouse\": \"AIPM\", \n
            \"datafields\": [] \n
        } \n
    ] \n\n``\n\n**XML Format:**\n\n``
xml\n<items>\n    <item code=\"1011\" class=\"KAUP\" name=\"Kommid Lily,
Kalev\" price=\"12.50\" quantity=\"150\" warehouse=\"AALTR\">\n
<datafields>\n        <data code=\"TEST_ARTIKKEL\" content=\"Test
lisaväli sisu\"/>\n        <data code=\"IS_WEIGHT\" content=\"0\"/>\n
<data code=\"VISUAL_VERIFICATION\" content=\"0\"/>\n        <data
code=\"VENSAFE\" content=\"0\"/>\n    </datafields>\n    </item>\n
<item code=\"1012\" class=\"KAUP\" name=\"Šokolaad Kalev\" price=\"8.75\"
quantity=\"200\" warehouse=\"AIPM\">\n        <datafields/>\n
</item>\n</items>\n\n``\n\n### Response Characteristics\n\n- **Array
Format**: All endpoints return arrays of objects, even for single results\n
\n- **Consistent Structure**: Field names are consistent across all response
formats\n    \n- **Custom Fields**: Custom data fields appear in the
`datafields` array\n    \n- **Null Values**: Missing or null values may be
omitted from responses\n    \n- **Date Format**: All dates use ISO 8601
format (e.g., `2025-11-20T07:30:00Z`)\n    \n- **Numeric Values**: Numbers
are returned as numbers in JSON, as strings in XML\n    \n\n---\n\n## △□
Error Handling\n\n### HTTP Status Codes\n\n| Status Code | Meaning |
Description |\n| --- | --- | --- |\n| `200` | OK | Request successful |\n|
`400` | Bad Request | Invalid parameters or malformed request |\n| `400` |
API not enabled | Resource not enabled for this API key |\n| `401` |
Unauthorized | Missing or invalid API key |\n| `403` | Forbidden | API key

```

lacks required permissions | \n| `404` | Not Found | Resource or endpoint not found | \n| `429` | Too Many Requests | Rate limit exceeded | \n| `500` | Internal Server Error | Server-side error | \n| `503` | Service Unavailable | API temporarily unavailable | \n\n### Error Response Format\n\n`` json\n{\n \"error\": {\n \"code\": \"INVALID\_API\_KEY\", \n \"message\": \"The provided API key is invalid or expired\", \n \"details\": \"Please check your API key and try again\" \n }\n}\n\n``\n\n### Common Error Scenarios\n\n**401 Unauthorized:**\n\n- Missing `X-Directo-Key` header\n- Invalid or expired API key\n- **Solution:** Verify your API key and ensure it's included in the header\n\n**403 Forbidden:**\n\n- API key lacks permissions for the requested resource\n- **Solution:** Contact your administrator to grant necessary permissions\n\n**400 Bad Request:**\n\n- Invalid filter syntax\n- Malformed date format (use ISO 8601: `2025-11-20T07:30:00Z`)\n- Filtering by calculated field\n- **Solution:** Check filter parameters and date formats\n\n**404 Not Found:**\n\n- Incorrect endpoint URL\n- Invalid API version\n- **Solution:** Verify the endpoint path and version number\n\n**429 Too Many Requests:**\n\n- Rate limit exceeded\n- **Solution:** Implement exponential backoff and reduce request frequency\n\n**500 Internal Server Error:**\n\n- Server-side processing error\n- **Solution:** Retry after a delay; contact support if persistent\n\n- -\n\n### Rate Limiting & Performance\n\n### Rate Limits\n\nWhile specific rate limits depend on your account tier, follow these guidelines:\n\n- **Recommended:** Max 60 requests per minute\n- **Burst Limit:** Short bursts of higher traffic may be allowed\n- **Daily Limits:** May apply based on your subscription\n\n### Performance Best Practices\n\n#### 1\\. Use Timestamp Filtering for Sync\n\nInstead of fetching all records repeatedly, use the `ts` parameter:\n\n`` http\nGET {{baseUrl}}/v{{version}}/items?ts=>2025-11-20T07:00:00Z\n``\n\n- **Benefits:**\n - Reduces data transfer\n - Faster response times\n - Lower server load\n - Stays within rate limits\n\n#### 2\\. Implement Pagination with Date Ranges\n\nFor large datasets, break requests into smaller chunks:\n\n`` http\n# Week 1\nGET {{baseUrl}}/v{{version}}/orders?date=>2025-11-01&date=<2025-11-08\n# Week 2\nGET {{baseUrl}}/v{{version}}/orders?date=>2025-11-08&date=<2025-11-15\n``\n\n#### 3\\. Cache Static Data\n\nCache data that changes infrequently:\n\n- Item classes (cache for 24 hours)\n- Price formulas (cache for 1 hour)\n- Customer master data (cache for 6 hours)\n\n#### 4\\. Use Specific Filters\n\nApply filters to retrieve only the data you need:\n\n`` http\n# Instead of fetching all items and filtering locally\nGET {{baseUrl}}/v{{version}}/items\n# Fetch only what you need\nGET {{baseUrl}}/v{{version}}/items?warehouse=AALTR&quantity=>0\n``\n\n#### 5\\. Implement Exponential Backoff\n\nFor transient errors (429, 503), retry with increasing delays:\n\n- 1st retry: wait 1 second\n- 2nd retry: wait 2 seconds\n- 3rd retry: wait 4 seconds\n- 4th retry: wait 8 seconds\n\n#### 6\\. Batch Related Requests\n\nGroup related operations to minimize round trips:\n\n1. Fetch orders: GET /orders?ts=>{last_sync}\n2. For each order, fetch customer details (if needed)\n3. Update local database in batch\n\n#### 7\\. Monitor API Usage\n\nTrack your API consumption:\n\n- Log request counts per endpoint\n- Monitor response times\n- Track error rates\n- Set up alerts

```

for rate limit warnings\n    \n\n---\n\n## □ Common Integration
Patterns\n\n### Pattern 1: Initial Data Sync (First-Time
Setup)\n\n**Objective**: Load all data from Directo ERP into your
system\n\n```\nStep 1: Fetch all items\nGET /items\nStep 2: Fetch all
customers\nGET /customers\nStep 3: Fetch all stock levels\nGET
/stocklevels\nStep 4: Fetch item classes\nGET /itemclasses\nStep 5: Store
current timestamp for future incremental syncs\ntimestamp =
current_time()\n\n```\n\n**Considerations:**\n\n- May take several minutes
for large datasets\n    \n- Run during off-peak hours\n    \n- Implement
progress tracking\n    \n- Handle timeouts gracefully\n    \n\n---\n\n###
Pattern 2: Incremental Sync (Ongoing Synchronization)\n\n**Objective**: Keep
your system up-to-date with changes in Directo ERP\n\n```\nStep 1: Retrieve
last sync timestamp from your database\nlast_sync =
get_last_sync_timestamp()\nStep 2: Fetch changed items\nGET
/items?ts=>{last_sync}\nStep 3: Fetch changed customers\nGET
/customers?ts=>{last_sync}\nStep 4: Fetch changed stock levels\nGET
/stocklevels?ts=>{last_sync}\nStep 5: Fetch deleted records\nGET
/deleted?ts=>{last_sync}\nStep 6: Process changes in your system\n- Update
existing records\n- Insert new records\n- Delete removed records\nStep 7:
Update last sync timestamp\nsave_last_sync_timestamp(current_time())\n\n
```\n\n**Frequency Recommendations:**\n\n- Critical data (stock levels,
orders): Every 5-15 minutes\n \n- Master data (items, customers): Every
1-6 hours\n \n- Static data (item classes): Daily\n \n\n---\n\n###
Pattern 3: Real-Time Order Monitoring\n\n**Objective**: Monitor new orders
for immediate processing\n\n```\nStep 1: Poll orders endpoint at regular
intervals\nGET /orders?status=NEW&ts=>{last_check}\nStep 2: Process new
orders\nfor each order:\n - Validate order data\n - Check inventory
availability\n - Create fulfillment tasks\n - Update order status in
your system\nStep 3: Update last check timestamp\nlast_check =
current_time()\nStep 4: Wait for next interval (e.g., 5 minutes)\nStep 5:
Repeat from Step 1\n\n```\n\n**Best Practices:**\n\n- Poll every 5-15
minutes (not more frequently)\n \n- Use `ts` parameter to avoid
processing duplicates\n \n- Implement idempotency in your order
processing\n \n- Log all processed orders for audit trail\n \n\n---
\n\n### Pattern 4: Inventory Management & Availability
Check\n\n**Objective**: Maintain accurate inventory availability in your
system\n\n```\nStep 1: Fetch current stock levels\nGET
/stocklevels?item_code={sku}\nStep 2: Fetch allocations (reserved
stock)\nGET /allocations?item_code={sku}\nStep 3: Calculate available
quantity\navailable = stock_quantity - allocated_quantity\nStep 4: Update
your inventory system\nupdate_inventory(sku, available)\nStep 5: Check for
low stock alerts\nif available < reorder_point:\n
trigger_reorder_alert(sku)\n\n```\n\n**Use Cases:**\n\n- E-commerce
available-to-promise\n \n- Warehouse management systems\n \n- Reorder
point monitoring\n \n- Multi-channel inventory sync\n \n\n---\n\n###
Pattern 5: Customer Data Synchronization (CRM Integration)\n\n**Objective**:
Keep customer data synchronized between Directo and your CRM\n\n```\nStep 1:
Fetch changed customers\nGET /customers?ts={last_sync}\nStep 2: For each
customer, sync to CRM\nfor each customer:\n if customer exists in CRM:\n
update_crm_customer(customer)\n else:\n
create_crm_customer(customer)\nStep 3: Fetch deleted customers\nGET

```

```

/deleted?resource_type=customers&ts={last_sync}\nStep 4: Remove deleted
customers from CRM\nfor each deleted_customer:\n
delete_crm_customer(deleted_customer.id)\nStep 5: Update sync
timestamp\nsave_last_sync_timestamp(current_time())\n\n```\n\n---\n\n###
Pattern 6: Invoice Export to Accounting System\n\n**Objective**: Export
invoices to external accounting software\n\n```\nStep 1: Fetch new/updated
invoices\nGET /invoices?ts=>{last_sync}\nStep 2: For each invoice, export to
accounting system\nfor each invoice:\n - Map Directo fields to accounting
system fields\n - Create invoice in accounting system\n - Create
invoice lines\n - Mark as exported in your database\nStep 3: Handle
errors\nfor each failed_invoice:\n - Log error details\n - Queue for
manual review\n - Send notification to accounting team\nStep 4: Update
sync timestamp\nsave_last_sync_timestamp(current_time())\n\n```\n\n---
\n\n### Pattern 7: Price Synchronization to E-Commerce\n\n**Objective**:
Keep product prices updated in your online store\n\n```\nStep 1: Fetch
changed items with pricing\nGET /items?ts=>{last_sync}\nStep 2: Fetch price
formulas (if using dynamic pricing)\nGET
/priceformulas?ts=>{last_sync}\nStep 3: Calculate final prices\nfor each
item:\n base_price = item.price\n if price_formula exists:\n
final_price = apply_formula(base_price, formula)\n else:\n
final_price = base_price\nStep 4: Update e-commerce platform\nfor each
item:\n update_product_price(item.code, final_price)\nStep 5: Update sync
timestamp\nsave_last_sync_timestamp(current_time())\n\n```\n\n---\n\n##
Troubleshooting Guide\n\n### Issue: Empty Response / No
Results\n\n**Possible Causes:**\n\n1. Filters too restrictive\n \n2. No
data matches criteria\n \n3. Incorrect date format\n \n4. Filtering by
calculated field\n \n5. Default filter set in ERP is too restrictive\n
\n\n**Solutions:**\n\n```\nhttp\n# Remove filters one by one to identify the
issue\nGET /items\n# No filters\nGET
/items?warehouse=AALTR\n# Add one filter\nGET
/items?warehouse=AALTR&quantity=>0\n# Add another filter\n# Verify
date format (must be ISO 8601)\n\nWRONG: ?date=2025-11-20\n\nCORRECT:
?date=>2025-11-20T00:00:00Z\n# Check if field is calculated\n# Try filtering
by underlying stored fields instead\n\n```\n\n---\n\n### Issue:
Authentication Errors (401/403)\n\n**Possible Causes:**\n\n1. Missing API
key\n \n2. Incorrect header name\n \n3. Expired key\n \n4.
Insufficient permissions\n
\n\n**Solutions:**\n\n```\nhttp\n# Verify
header name (case-sensitive)\n\nWRONG: X-Api-Key: YOUR_KEY\n\nWRONG: X-
Directo-Api-Key: YOUR_KEY\n\nCORRECT: X-Directo-Key: YOUR_KEY\n# Check key
validity\n# Contact administrator to verify:\n# - Key is active\n# - Key has
permissions for the resource\n# - Key hasn't expired\n# Test with curl\ncurl
-X GET "{base_url}/v{version}/items" \\n -H "X-Directo-Key:
YOUR_API_KEY" \\n -H "Accept: application/json" \\n -v\n\n```\n\n---
\n\n### Issue: Unexpected Data Format\n\n**Possible Causes:**\n\n1. Wrong
`Accept` header\n \n2. API version mismatch\n \n3. Expecting different
structure\n
\n\n**Solutions:**\n\n```\nhttp\n# Verify Accept header\nFor
JSON: Accept: application/json\nFor XML: Accept: application/xml\n# Check
API version in URL\n{base_url}/v1/items (not v2 or v0)\n# Examine actual
response structure\n# Make a simple request and inspect the response\nGET
/items?code=1011\n\n```\n\n---\n\n### Issue: Filter Not Working as
Expected\n\n**Possible Causes:**\n\n1. Field name misspelled\n \n2. Field

```

```

is calculated (not filterable)\n \n3. Wrong operator syntax\n \n4.
Value not URL-encoded\n \n\n**Solutions:**\n\n`` http\n# Verify field
name (case-sensitive)\n \n WRONG: ?Code=1011\n CORRECT: ?code=1011\n# Check
if field exists in response\nGET /items?code=1011\n# Examine response to see
actual field names\n# Verify operator syntax\n CORRECT: ?quantity=>100
(greater than)\n CORRECT: ?quantity=<50 (less than)\n CORRECT:
?status!=CLOSED (not equal)\n# URL encode special characters\n WRONG:
?date=>2025-11-20 07:30:00\n CORRECT: ?date=>2025-11-20T07:30:00Z\n\n
``\n\n---\n\n\n### Issue: Slow Response Times\n\n**Possible Causes:**\n\n1.
Fetching too much data\n \n2. No filters applied\n \n3. Complex
queries\n \n4. Server load\n \n\n**Solutions:**\n\n`` http\n# Use
filters to reduce data volume\n SLOW: GET /items\n FASTER: GET
/items?warehouse=AALTR&closed=0\n# Use timestamp filtering for incremental
sync\n FASTER: GET /items?ts=2025-11-20T07:00:00Z\n# Break large requests
into smaller chunks\n# Instead of fetching all orders:\nGET
/orders?date=>2025-11-01&date=<2025-11-08\nGET
/orders?date=>2025-11-08&date=<2025-11-15\n# Implement caching for static
data\n# Cache item classes, price formulas for 1-24 hours\n\n\n``\n\n---
\n\n\n### Issue: Rate Limit Errors (429)\n\n**Possible Causes:**\n\n1. Too
many requests in short time\n \n2. No rate limiting in your code\n
\n3. Multiple processes hitting API\n \n\n**Solutions:**\n\n`` python\n#
Implement exponential backoff\nimport time\ndef make_request_with_retry(url,
max_retries=5):\n for attempt in range(max_retries):\n response =
requests.get(url)\n if response.status_code == 200:\n
return response\n elif response.status_code == 429:\n
wait_time = 2 ** attempt # 1, 2, 4, 8, 16 seconds\n
time.sleep(wait_time)\n else:\n raise Exception(f"Error:
{response.status_code}")\n raise Exception("Max retries exceeded")\n
Add delays between requests\ntime.sleep(1) # Wait 1 second between
requests\n# Use timestamp filtering to reduce request frequency\n# Instead
of polling every minute, poll every 5-15 minutes\n\n\n``\n\n---\n\n\n###
Issue: Data Inconsistency\n\n**Possible Causes:**\n\n1. Not handling
deletions\n \n2. Missing incremental updates\n \n3. Race conditions\n
\n4. Not using timestamps correctly\n \n\n**Solutions:**\n\n`` http\n#
Always check for deletions\nGET /deleted?ts=>{last_sync}\n# Use consistent
timestamp handling\nlast_sync= "2025-11-20T07:00:00Z"\nGET
/items?ts=>{last_sync}\nGET /customers?ts=>{last_sync}\nGET
/deleted?ts=>{last_sync}\n# Store timestamp AFTER successful processing\n#
Not before, to avoid missing updates if processing fails\n# Implement
idempotency\n# Use unique IDs to prevent duplicate processing\n\n\n``\n\n---
\n\n\n### Issue: Missing Custom Fields\n\n**Possible Causes:**\n\n1. Custom
fields not configured in ERP\n \n2. Looking in wrong place in response\n
\n3. Permissions issue\n \n\n**Solutions:**\n\n`` http\n# Custom fields
are in datafields array\nGET /items?code=1011\n# Response structure:\n{\n
 "code": "1011",\n "name": "Item Name",\n "datafields": [\n
 {\n "code": "CUSTOM_FIELD_1",\n "content":
"Value"\n }\n]\n}\n# Filter by custom fields\nGET
/items?CUSTOM_FIELD_1=Value\n# Verify custom fields exist in ERP\n# Contact
administrator to confirm field names\n\n\n``\n\n---\n\n\n### Issue:
`usagelogs` missing older entries\n\n**Possible Cause:** Log retention is
capped by Administrator settings\n(\n "Log age in days" / \n "Log age in

```

transactions\" – see \n[Administratori  
seadistused](https://wiki.directo.ee/et/administrator\_settings)), \nnot by  
the API itself.\n\n**Solution:** Ask your administrator to check/raise these  
two settings, or \nstart pulling and archiving `/usagelogs` regularly to  
keep your own history.\n\n---\n\n## Support & Resources\n\n### Need  
Help?\n\n**Technical Support:**\n\n- Email:  
[info@directo.ee](https://mailto:info@directo.ee)\n\n- Contact your  
Directo account manager\n\n- Submit support ticket through your in  
Directo Chat\n\n\n**API Issues:**\n\n- Report bugs via your support  
channel\n\n- Include: request URL, headers, response, error message\n\n- Provide timestamp of the issue\n\n\n**Feature Requests:**\n\n- Submit through your account manager\n\n- Describe use case and business  
value\n\n- Include examples of desired functionality\n\n\n###  
Additional Resources\n\n- **Directo ERP Documentation:** Comprehensive guide  
to ERP features\n\n- **API Changelog:** Check for updates and new  
features\n\n- **Integration Examples:** Sample code in this collection\n\n- **Community Forum:** Share experiences with other developers (if  
available)\n\n\n### Best Practices for Support Requests\n\n\nWhen  
contacting support, include:\n\n1. **Request Details:**\n\n- Method: GET\n\n- URL:  
{baseUrl}/v1/items?warehouse=AALTR\n\n- Headers:\n\n- X-Directo-Key: [REDACTED]\n\n- Accept: application/json\n\n- \n\n- \n\n2. **Response Details:**\n\n- Status Code: 400\n\n- Response Body: {\"error\": \"Invalid filter\"}\n\n- \n\n- \n\n3. **Expected Behavior:**\n\n- \n\n- \n\n4. **Actual Behavior:**\n\n- \n\n- \n\n5. Received 400 error with \"Invalid filter\" message\n\n- \n\n- \n\n5. **Troubleshooting Steps Taken:**\n\n- \n\n- \n\n- Verified field name in response\n\n- \n\n- Tested without filters (works)\n\n- \n\n- Checked URL encoding\n\n- \n\n- \n\n---\n\n## Changelog &  
Version History\n\n### Version 1 (Current)\n\n**Release Date:**  
2024\n\n**Features:**\n\n- Initial API release\n\n- Support for all  
major resources (items, customers, orders, invoices, stock levels)\n\n- JSON and XML response formats\n\n- ERP-style filtering capabilities with  
comparison operators\n\n- Timestamp-based synchronization\n\n- API  
key authentication\n\n- Rate limiting\n\n\n**Endpoints:**\n\n- `/items` - Item master data\n\n- `/sales\_quotations` - Sales quotations  
master data\n\n- `/customers` - Customer master data\n\n- \n\n- `/suppliers` - Suppliers master data\n\n- \n\n- `/contacts` - Contact persons  
master data\n\n- \n\n- `/orders` - Sales orders\n\n- \n\n- `/purchase\_orders` -  
Purchase orders\n\n- \n\n- `/invoices` - Sales Invoice documents\n\n- \n\n- `/purchase\_invoices` - Purchase Invoice documents\n\n- \n\n- \n\n- `/purchase\_payments` - Purchase Payments documents\n\n- \n\n- `/stocklevels` -  
Inventory levels\n\n- \n\n- `/stocklevels\_sn` - Inventory with serial/batch  
numbers\n\n- \n\n- `/allocations` - Inventory allocations\n\n- \n\n- \n\n- `/itemclasses` - Item classifications\n\n- \n\n- `/priceformulas` - Pricing  
rules\n\n- \n\n- \n\n- `/accounts` - Financial account master data\n\n- \n\n- \n\n- `/transactions` - Financial transaction documents\n\n- \n\n- \n\n- \n



```

Deletion tracking\n \n\n**Known Limitations:**\n\n- Calculated fields
cannot be filtered\n \n- No pagination (use date ranges and timestamp
filtering)\n \n- Rate limits apply (60 requests/minute recommended)\n
\n\n---\n\n## ☐ Security & Compliance\n\n### Data Security\n\n-
Encryption: All API requests must use HTTPS\n \n- **Authentication**:
API key required for all requests\n \n- **Authorization**: Role-based
access control via API keys\n \n- **Audit Logging**: All API requests are
logged server-side\n \n\n### Compliance Considerations\n\n- **GDPR**:
Customer data includes personal information - handle according to GDPR
requirements\n \n- **Data Retention**: Implement appropriate data
retention policies\n \n- **Access Control**: Limit API key distribution
to authorized personnel only\n \n- **Monitoring**: Monitor API usage for
unusual patterns\n \n\n### Security Best Practices\n\n1. **Protect API
Keys:**\n \n - Never commit keys to version control\n \n -
Use environment variables or secure vaults\n \n - Rotate keys
regularly (quarterly recommended)\n \n - Use different keys for
dev/staging/production\n \n2. **Implement Access Controls:**\n \n -
Limit API key permissions to minimum required\n \n - Use
separate keys for different integrations\n \n - Revoke keys
immediately when no longer needed\n \n3. **Monitor Usage:**\n \n -
Log all API requests in your application\n \n - Set up alerts
for unusual activity\n \n - Review access logs regularly\n \n4. **Handle Data Responsibly:**\n \n - Encrypt sensitive data at
rest\n \n - Implement data retention policies\n \n -
Comply with privacy regulations (GDPR, etc.)\n \n - Secure data
transmission (HTTPS only)\n \n\n---\n\n## ☐ Tips & Tricks\n\n### Tip
1: Discover Available Fields\n\n `` http\n\n# Make a request without filters
to see all available fields\nGET /items?code=1011\n\n# Examine the response to
discover:\n\n# - Field names (for filtering)\n\n# - Data types\n\n# - Custom
fields (in datafields array)\n\n ``\n\n### Tip 2: Test Filters in ERP
First\n\n Before implementing filters in your code, test them in the Directo
ERP interface. If a filter works in the ERP, it will work in the API.\n\n###
Tip 3: Use Postman Variables\n\n Set up collection variables for easy
environment switching:\n\n - `baseUrl`:\n
 `https://login.directo.ee/apidirect`\n \n - `version`: `1`\n \n -
`apiKey`: `YOUR_API_KEY`\n \n### Tip 4: Build Filter Strings
Programmatically\n\n `` python\n\n# Python example\nndef
build_filter_url(base_url, filters):\n params = "&".join([f"{k}={v}"
for k, v in filters.items()])\n return f"{base_url}?{params}"\n\nfilters
= {\n "warehouse": "AALTR",\n "quantity": ">0",\n
 "status": "ACTIVE"\n}\n\nurl = build_filter_url("{baseUrl}"/v1/items",
filters)\n\n# Result:\n
{{baseUrl}}/v1/items?warehouse=AALTR&quantity=>0&status=ACTIVE\n\n
``\n\n### Tip 5: Handle Timestamps Consistently\n\n    `` python\n\n# Always use
ISO 8601 format with timezone\nfrom datetime import datetime, timezone\n\n#
Get current timestamp\nnow = datetime.now(timezone.utc).isoformat()\n\n#
Result: 2025-11-20T07:30:00+00:00\n\n# Or use Z notation\nnow =
datetime.now(timezone.utc).strftime("%Y-%m-%dT%H:%M:%SZ")\n\n# Result:
2025-11-20T07:30:00Z\n\n ``\n\n### Tip 6: Implement Robust Error
Handling\n\n `` python\n\n# Python example with comprehensive error
handling\nimport requests\nimport time\n\ndef fetch_directo_data(endpoint,

```

```

params=None, max_retries=3):\n url =
f\"{{{baseUrl}}}/v{{{version}}}/{endpoint}\" \n headers = {\n
\"X-Directo-Key\": \"YOUR_API_KEY\", \n \"Accept\":
\"application/json\" \n } \n for attempt in range(max_retries):\n
try:\n response = requests.get(url, headers=headers,
params=params, timeout=30)\n if response.status_code == 200:\n
return response.json()\n elif response.status_code == 429:\n
Rate limit - wait and retry\n wait_time = 2 ** attempt\n
time.sleep(wait_time)\n elif response.status_code in [401,
403]:\n # Auth error - don't retry\n raise
Exception(f\"Authentication error: {response.status_code}\")\n
else:\n # Other error - log and retry\n
print(f\"Error {response.status_code}: {response.text}\")\n
time.sleep(1)\n except requests.exceptions.Timeout:\n
print(f\"Timeout on attempt {attempt + 1}\")\n time.sleep(2)\n
except requests.exceptions.RequestException as e:\n
print(f\"Request failed: {e}\")\n time.sleep(2)\n raise
Exception(f\"Failed after {max_retries} attempts\")\n# Usage\nitems =
fetch_directo_data(\"items\", params={\"warehouse\": \"AALTR\",
\"quantity\": \">0\"})\n\n ``\n\n---\n\n**Last Updated:** 29-01-2026
\n**API Version:** 1 \n\n**Documentation Version:** 3.0 (Enterprise
Edition)\n\n---\n\n## ☐ Quick Reference Card\n\n### Essential
Endpoints\n\n``\nItems: GET /v1/items\nCustomers: GET
/v1/customers\nOrders: GET /v1/orders\nInvoices: GET
/v1/invoices\nStock: GET /v1/stocklevels\nDeletions: GET
/v1/deleted\n\n``\n\n### Authentication\n\n`` http\nX-Directo-Key:
YOUR_API_KEY\n\n``\n\n### Response Format\n\n`` http\nAccept:
application/json (or application/xml)\n\n``\n\n### Common
Filters\n\n``\nExact match: ?field=value\nGreater than:
?field=>value\nLess than: ?field=Not equal:
?field!=value\nMultiple values: ?field=value1,value2\nTimestamp:
?ts=2025-11-20T07:00:00Z\n\n``\n\n### Filter Examples\n\n``
http\n?warehouse=AALTR\n?quantity=>100\n?date=>2025-11-01T00:00:00&date=<202
5-12-01T00:00:00\n?status=NEW,PENDING\n?country!=EE\n?ts=2025-11-20T07:00:00
Z\n\n``\n\n### Remember\n\n☐ All fields can be filtered (except calculated
fields) \n☐ Filters mirror ERP system behavior \n☐ Use timestamp filtering
for sync \n☐ URL encode special characters \n☐ Implement rate limiting (60
req/min) \n☐ Handle errors with exponential backoff\n\n---\n\nThis
documentation is maintained by the Directo development team. For questions
or feedback, contact_
[<i>info@directo.ee</i>](https://mailto:info@directo.ee)\",
 \"schema\":
\"https://schema.getpostman.com/json/collection/v2.1.0/collection.json\",
 \"_exporter_id\": \"14246513\"
},
\"item\": [
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 \"item\": [
 {
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```

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 "disabled": true
 },
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 "disabled": true
 },
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 "key": "stock",
```

```
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 "value": "application/xml"
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```

```

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 "sales_quotations"
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```

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```

```

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```



```
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```

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```

```
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```

```
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scheme: apikey"

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```

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scheme: apikey"
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```
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}
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```
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```

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}
]
}

```

```
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 "value": ">2025-09-01T00:00:00",
 "disabled": true
 },
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 "value": "!EE",
 "disabled": true
 },
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 "key": "project",
 "value": "AALTR,AIPM",
 "disabled": true
 },
 {
 "key": "row_rn",
 "value": "Maja",
 "disabled": true
 }
]
 }
}
```

```

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 "key": "X-Directo-Key",
 "value": "<API Key>",
 "description": "Added as a part of security
scheme: apikey"
 }
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 "raw":
"{{baseUrl}}/v{{version}}/purchase_payments?ts=1949-07-30T08:11:05.129Z",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "purchase_payments"
],
 "query": [
 {
 "key": "ts",
 "value": "1949-07-30T08:11:05.129Z"
 }
]
 }
 }
 }
]

```

```

]
 }
 },
 "status": "OK",
 "code": 200,
 "_postman_previewlanguage": "xml",
 "header": [
 {
 "key": "Content-Type",
 "value": "application/xml"
 }
],
 "cookie": [],
 "body": ""
 }
]
}
],
{
 "name": "customers",
 "item": [
 {
 "name": "All customers",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/customers",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "customers"
],
 "query": [
 {
 "key": "ts",
 "value": "2025-01-01T08:11:05.129Z",
 "disabled": true
 },
 {
 "key": "code",
 "value": null,
 "disabled": true
 }
]
 }
 }
 }
]
}

```

```

 },
 {
 "key": "closed",
 "value": "0",
 "disabled": true
 }
]
}
},
"response": [
 {
 "name": "OK",
 "originalRequest": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 },
 {
 "key": "X-Directo-Key",
 "value": "<API Key>",
 "description": "Added as a part of security
scheme: apikey"
 }
],
 "url": {
 "raw":
"{{baseUrl}}/v{{version}}/customers?ts=1949-07-30T08:11:05.129Z",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "customers"
],
 "query": [
 {
 "key": "ts",
 "value": "1949-07-30T08:11:05.129Z"
 }
]
 }
 },
 "status": "OK",
 "code": 200,
 "_postman_previewlanguage": "xml",
 "header": [
 {
 "key": "Content-Type",
 "value": "application/xml"
 }
]
 }
]

```

```

 }
],
 "cookie": [],
 "body": ""
 }
]
}
},
{
 "name": "suppliers",
 "item": [
 {
 "name": "All suppliers",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/suppliers",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "suppliers"
],
 "query": [
 {
 "key": "ts",
 "value": "2025-01-01T08:11:05.129Z",
 "disabled": true
 },
 {
 "key": "data_row_code",
 "value": "PROMO,HANKIJA_LINK_SIS",
 "disabled": true
 },
 {
 "key": "closed",
 "value": "0",
 "disabled": true
 }
]
 }
 }
 }
],
 "response": [

```

```

 {
 "name": "OK",
 "originalRequest": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 },
 {
 "key": "X-Directo-Key",
 "value": "<API Key>",
 "description": "Added as a part of security
scheme: apikey"
 }
],
 "url": {
 "raw":
"{{baseUrl}}/v{{version}}/suppliers?ts=1949-07-30T08:11:05.129Z",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "suppliers"
],
 "query": [
 {
 "key": "ts",
 "value": "1949-07-30T08:11:05.129Z"
 }
]
 }
 },
 "status": "OK",
 "code": 200,
 "_postman_previewlanguage": "xml",
 "header": [
 {
 "key": "Content-Type",
 "value": "application/xml"
 }
],
 "cookie": [],
 "body": ""
 }
]
 },
 {

```



```
"name": "contacts",
"item": [
 {
 "name": "All contacts",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/contacts",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "contacts"
],
 "query": [
 {
 "key": "ts",
 "value": "2025-01-01T08:11:05.129Z",
 "disabled": true
 },
 {
 "key": "code",
 "value": null,
 "disabled": true
 },
 {
 "key": "closed",
 "value": "0",
 "disabled": true
 }
]
 }
 },
 "response": [
 {
 "name": "OK",
 "originalRequest": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
]
 }
 }
]
 }
]
```

```

 "key": "X-Directo-Key",
 "value": "<API Key>",
 "description": "Added as a part of security
scheme: apikey"
 }
],
 "url": {
 "raw":
"{{baseUrl}}/v{{version}}/contacts?ts=1949-07-30T08:11:05.129Z",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "contacts"
],
 "query": [
 {
 "key": "ts",
 "value": "1949-07-30T08:11:05.129Z"
 }
]
 },
 "status": "OK",
 "code": 200,
 "_postman_previewlanguage": "xml",
 "header": [
 {
 "key": "Content-Type",
 "value": "application/xml"
 }
],
 "cookie": [],
 "body": ""
}
]
},
{
 "name": "items",
 "item": [
 {
 "name": "All items",
 "event": [
 {
 "listen": "test",
 "script": {
 "exec": [
 ""
]
 }
 }
]
 }
]
}
]
}

```

```
],
 "type": "text/javascript",
 "packages": {},
 "requests": {}
 }
},
{
 "listen": "prerequisite",
 "script": {
 "exec": [
 ""
],
 "type": "text/javascript",
 "packages": {},
 "requests": {}
 }
}
],
"request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 },
 {
 "key": "",
 "value": "",
 "type": "text",
 "disabled": true
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/items",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "items"
],
 "query": [
 {
 "key": "code",
 "value": "",
 "disabled": true
 },
 {
 "key": "ts",
 "value": "2025-01-01T08:11:05.129Z",
 "disabled": true
 }
]
 }
}
```

```
 },
 {
 "key": "stock",
 "value": "AALTR,AIPM",
 "disabled": true
 },
 {
 "key": "country",
 "value": "EE",
 "disabled": true
 },
 {
 "key": "class",
 "value": "AUTOD",
 "disabled": true
 },
 {
 "key": "closed",
 "value": "1",
 "disabled": true
 },
 {
 "key": "name",
 "value": "%name%",
 "type": "text",
 "disabled": true
 },
 {
 "key": "description",
 "value": "%description%",
 "disabled": true
 }
]
},
"response": [
 {
 "name": "OK",
 "originalRequest": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 },
 {
 "key": "X-Directo-Key",
 "value": "<API Key>",
 "description": "Added as a part of security"
 }
]
 }
 }
]
```

scheme: apikey"

```

],
 "url": {
 "raw":
"{{baseUrl}}/v{{version}}/items?ts=1949-07-30T08:11:05.129Z",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "items"
],
 "query": [
 {
 "key": "ts",
 "value": "1949-07-30T08:11:05.129Z"
 }
]
 }
 },
 "status": "OK",
 "code": 200,
 "_postman_previewlanguage": "xml",
 "header": [
 {
 "key": "Content-Type",
 "value": "application/xml"
 }
],
 "cookie": [],
 "body": ""
}
]
}
],
{
 "name": "itemclasses",
 "item": [
 {
 "name": "All itemclasses",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
]
 },
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/itemclasses",
 "host": [

```

```

 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "itemclasses"
],
 "query": [
 {
 "key": "ts",
 "value": "2025-01-01T08:11:05.129Z",
 "disabled": true
 },
 {
 "key": "masters",
 "value": "CON",
 "disabled": true
 },
 {
 "key": "code",
 "value": null,
 "disabled": true
 }
]
 },
 "response": [
 {
 "name": "OK",
 "originalRequest": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 },
 {
 "key": "X-Directo-Key",
 "value": "<API Key>",
 "description": "Added as a part of security
scheme: apikey"
 }
]
 },
 "url": {
 "raw":
 "{{baseUrl}}/v{{version}}/itemclasses?ts=1949-07-30T08:11:05.129Z",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "itemclasses"
]
 }
 }
]
}

```

```

],
 "query": [
 {
 "key": "ts",
 "value": "1949-07-30T08:11:05.129Z"
 }
]
 },
 "status": "OK",
 "code": 200,
 "_postman_previewlanguage": "xml",
 "header": [
 {
 "key": "Content-Type",
 "value": "application/xml"
 }
],
 "cookie": [],
 "body": ""
}
]
}
],
{
 "name": "priceformulas",
 "item": [
 {
 "name": "All priceformulas",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/priceformulas",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "priceformulas"
],
 "query": [
 {
 "key": "ts",
 "value": "2025-01-01T08:11:05.129Z",

```

```

 "disabled": true
 },
 {
 "key": "row_item",
 "value": "0009",
 "disabled": true
 }
]
 },
 "response": [
 {
 "name": "OK",
 "originalRequest": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 },
 {
 "key": "X-Directo-Key",
 "value": "<API Key>",
 "description": "Added as a part of security
scheme: apikey"
 }
],
 "url": {
 "raw":
"{{baseUrl}}/v{{version}}/priceformulas?ts=1949-07-30T08:11:05.129Z",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "priceformulas"
],
 "query": [
 {
 "key": "ts",
 "value": "1949-07-30T08:11:05.129Z"
 }
]
 }
 },
 "status": "OK",
 "code": 200,
 "_postman_previewlanguage": "xml",
 "header": [
 {
 "key": "Content-Type",

```



```
 "value": "application/xml"
 }
],
 "cookie": [],
 "body": ""
 }
]
},
{
 "name": "stocklevels",
 "item": [
 {
 "name": "All stocklevels",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/stocklevels",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "stocklevels"
],
 "query": [
 {
 "key": "code",
 "value": "_4008110308067",
 "disabled": true
 },
 {
 "key": "stock",
 "value": "123TEST",
 "disabled": true
 }
]
 }
 },
 "response": [
 {
 "name": "OK",
 "originalRequest": {
 "method": "GET",
```

```

 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 },
 {
 "key": "X-Directo-Key",
 "value": "<API Key>",
 "description": "Added as a part of security
scheme: apikey"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/stocklevels",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "stocklevels"
],
 "query": [
 {
 "key": "ts",
 "value": "1949-07-30T08:11:05.129Z",
 "disabled": true
 }
]
 },
 "status": "OK",
 "code": 200,
 "_postman_previewlanguage": "xml",
 "header": [
 {
 "key": "Content-Type",
 "value": "application/xml"
 }
],
 "cookie": [],
 "body": ""
 }
],
{
 "name": "All stocklevels with serialnumbers/batchnumbers",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",

```

```

 "value": "application/xml"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/stocklevels_sn",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "stocklevels_sn"
],
 "query": [
 {
 "key": "code",
 "value": "",
 "disabled": true
 },
 {
 "key": "sn",
 "value": "E101-10",
 "disabled": true
 },
 {
 "key": "stock",
 "value": "TL1,TL",
 "disabled": true
 }
]
 }
 },
 "response": [
 {
 "name": "OK",
 "originalRequest": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 },
 {
 "key": "X-Directo-Key",
 "value": "<API Key>",
 "description": "Added as a part of security
scheme: apikey"
 }
]
 },
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/stocklevels_sn",
 "host": [

```

```
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "stocklevels_sn"
]
 }
 },
 "status": "OK",
 "code": 200,
 "_postman_previewlanguage": "xml",
 "header": [
 {
 "key": "Content-Type",
 "value": "application/xml"
 }
],
 "cookie": [],
 "body": ""
}
]
},
{
 "name": "All Allocations",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/allocations",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "allocations"
],
 "query": [
 {
 "key": "code",
 "value": null,
 "disabled": true
 }
]
 }
 },
 "response": [
```

```

 {
 "name": "OK",
 "originalRequest": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 },
 {
 "key": "X-Directo-Key",
 "value": "<API Key>",
 "description": "Added as a part of security
scheme: apikey"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/allocations",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "allocations"
]
 }
 },
 "status": "OK",
 "code": 200,
 "_postman_previewlanguage": "xml",
 "header": [
 {
 "key": "Content-Type",
 "value": "application/xml"
 }
],
 "cookie": [],
 "body": ""
 }
]
},
{
 "name": "accounts",
 "item": [
 {
 "name": "All accounts",
 "request": {
 "method": "GET",
 "header": [

```

```

 {
 "key": "Accept",
 "value": "application/xml"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/accounts",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "accounts"
],
 "query": [
 {
 "key": "code",
 "value": "",
 "disabled": true
 },
 {
 "key": "class",
 "value": "",
 "disabled": true
 },
 {
 "key": "closed",
 "value": "1",
 "disabled": true
 }
]
 }
 },
 "response": [
 {
 "name": "OK",
 "originalRequest": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 },
 {
 "key": "X-Directo-Key",
 "value": "<API Key>",
 "description": "Added as a part of security"
 }
]
 },
 "url": {

```

scheme: apikey"

```
 "raw":
"{{baseUrl}}/v{{version}}/accounts?ts=1949-07-30T08:11:05.129Z",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "accounts"
],
 "query": [
 {
 "key": "ts",
 "value": "1949-07-30T08:11:05.129Z"
 }
]
 },
 "status": "OK",
 "code": 200,
 "_postman_previewlanguage": "xml",
 "header": [
 {
 "key": "Content-Type",
 "value": "application/xml"
 }
],
 "cookie": [],
 "body": ""
}
]
}
],
},
{
 "name": "transactions",
 "item": [
 {
 "name": "All transactions",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
]
 },
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/transactions",
 "host": [
 "{{baseUrl}}"
],
```

```
"path": [
 "v{{version}}",
 "transactions"
],
"query": [
 {
 "key": "number",
 "value": "1011",
 "disabled": true
 },
 {
 "key": "type",
 "value": "FIN,LAEK",
 "disabled": true
 },
 {
 "key": "date",
 "value": "<2023-05-10T09:13:57",
 "disabled": true
 },
 {
 "key": "row_account",
 "value": "111281",
 "disabled": true
 },
 {
 "key": "ts",
 "value": "2025-01-01T08:11:05.129Z",
 "disabled": true
 }
]
},
"response": [
 {
 "name": "OK",
 "originalRequest": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 },
 {
 "key": "X-Directo-Key",
 "value": "<API Key>",
 "description": "Added as a part of security"
 }
]
 }
 }
],
"url": {
```

scheme: apikey"



```

 "raw":
"{{baseUrl}}/v{{version}}/transactions?ts=1949-07-30T08:11:05.129Z",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "transactions"
],
 "query": [
 {
 "key": "ts",
 "value": "1949-07-30T08:11:05.129Z"
 }
]
 },
 "status": "OK",
 "code": 200,
 "_postman_previewlanguage": "xml",
 "header": [
 {
 "key": "Content-Type",
 "value": "application/xml"
 }
],
 "cookie": [],
 "body": ""
}
]
}
],
{
 "name": "deletions",
 "item": [
 {
 "name": "All deleted",
 "request": {
 "method": "GET",
 "header": [],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/deleted",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "deleted"
],
 "query": [

```

```

 {
 "key": "document",
 "value": "maksuvalem,inventar",
 "disabled": true
 },
 {
 "key": "user",
 "value": "!SUPER",
 "disabled": true
 },
 {
 "key": "ts",
 "value": ">2020-09-23T16:37:09",
 "disabled": true
 },
 {
 "key": "code",
 "value": null,
 "disabled": true
 },
 {
 "key": "number",
 "value": null,
 "disabled": true
 }
]
 },
 "response": [
 {
 "name": "OK",
 "originalRequest": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 },
 {
 "key": "X-Directo-Key",
 "value": "<API Key>",
 "description": "Added as a part of security
scheme: apikey"
 }
],
 "url": {
 "raw":
"{{baseUrl}}/v{{version}}/deleted?ts=1949-07-30T08:11:05.129Z",
 "host": [
 "{{baseUrl}}"
],

```

```

 "path": [
 "v{{version}}",
 "deleted"
],
 "query": [
 {
 "key": "ts",
 "value": "1949-07-30T08:11:05.129Z"
 }
]
 },
 "status": "OK",
 "code": 200,
 "_postman_previewlanguage": "xml",
 "header": [
 {
 "key": "Content-Type",
 "value": "application/xml"
 }
],
 "cookie": [],
 "body": ""
}
]
}
],
{
 "name": "financial_budgets",
 "item": [
 {
 "name": "All financial budgets",
 "request": {
 "method": "GET",
 "header": [],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/financial_budgets",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "financial_budgets"
]
 }
 },
 "response": []
 }
]
}
],
},

```

```
{
 "name": "events",
 "item": [
 {
 "name": "All events",
 "request": {
 "method": "GET",
 "header": [],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/events",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "events"
]
 }
 },
 "response": []
 }
]
},
{
 "name": "receipts",
 "item": [
 {
 "name": "All receipts",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/receipts",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "receipts"
]
 },
 "query": [
 {
 "key": "ts",
 "value": "2025-01-01T08:11:05.129Z",
 "disabled": true
 },

```

```
 {
 "key": "code",
 "value": null,
 "disabled": true
 },
 {
 "key": "closed",
 "value": "0",
 "disabled": true
 }
]
 },
 "response": []
 }
],
},
{
 "name": "deliveries",
 "item": [
 {
 "name": "All deliveries",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
]
 },
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/deliveries",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "deliveries"
],
 "query": [
 {
 "key": "ts",
 "value": "2025-01-01T08:11:05.129Z",
 "disabled": true
 },
 {
 "key": "code",
 "value": "",
 "disabled": true
 }
]
 }
 }
]
}
```

```
 "key": "confirmed",
 "value": "0",
 "disabled": true
 }
]
 },
 "response": []
}
],
{
 "name": "movements",
 "item": [
 {
 "name": "All movements",
 "request": {
 "method": "GET",
 "header": [],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/movements",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "movements"
]
 }
 },
 "response": []
 }
]
},
{
 "name": "objects",
 "item": [
 {
 "name": "All objects",
 "request": {
 "method": "GET",
 "header": [],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/objects",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "objects"
]
 }
 },
 "response": []
 }
]
}
```

```
 }
 },
 "response": []
}
]
},
{
 "name": "projects",
 "item": [
 {
 "name": "All projects",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/projects",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "projects"
],
 "query": [
 {
 "key": "ts",
 "value": "2025-01-01T08:11:05Z",
 "disabled": true
 },
 {
 "key": "number",
 "value": "!1908694",
 "disabled": true
 },
 {
 "key": "row_item",
 "value": "9810",
 "disabled": true
 },
 {
 "key": "status",
 "value": "UUS",
 "disabled": true
 },
 {
 "key": "row_description",
```

```
 "value": "Maja",
 "disabled": true
 },
 {
 "key": "stock",
 "value": "AALTR,AIPM",
 "disabled": true
 },
 {
 "key": "row_quantity",
 "value": "as",
 "disabled": true
 },
 {
 "key": "country",
 "value": "!EE",
 "disabled": true
 },
 {
 "key": "date",
 "value": "<2025-09-03T00:00:00",
 "disabled": true
 },
 {
 "key": "date",
 "value": ">2025-09-01T00:00:00",
 "disabled": true
 },
 {
 "key": "row_stock",
 "value": "223TEST",
 "disabled": true
 }
]
 }
 },
 "response": []
}
]
},
{
 "name": "resources",
 "item": [
 {
 "name": "All resources",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
```



```
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/resources",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "resources"
],
 "query": [
 {
 "key": "ts",
 "value": "2025-01-01T08:11:05Z",
 "disabled": true
 },
 {
 "key": "number",
 "value": "!1908694",
 "disabled": true
 },
 {
 "key": "status",
 "value": "UUS",
 "disabled": true
 },
 {
 "key": "date",
 "value": "<2025-09-03T00:00:00",
 "disabled": true
 },
 {
 "key": "date",
 "value": ">2025-09-01T00:00:00",
 "disabled": true
 },
 {
 "key": "confirmed",
 "value": "1",
 "type": "text",
 "disabled": true
 },
 {
 "key": "row_acceptedhours",
 "value": ">0",
 "type": "text",
 "disabled": true
 },
 {
 "key": "row_description",
```

```
 "value": "Maja",
 "disabled": true
 }
]
 },
 "response": []
}
]
},
{
 "name": "sales_contracts",
 "item": [
 {
 "name": "All sales contracts",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/sales_contracts",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "sales_contracts"
],
 "query": [
 {
 "key": "ts",
 "value": "2025-01-01T08:11:05Z",
 "disabled": true
 },
 {
 "key": "number",
 "value": "!1908694",
 "disabled": true
 },
 {
 "key": "status",
 "value": "UUS",
 "disabled": true
 },
 {
 "key": "row_description",
 "value": "Maja",
```

```
 "disabled": true
 },
 {
 "key": "date",
 "value": "<2025-09-03T00:00:00",
 "disabled": true
 },
 {
 "key": "date",
 "value": ">2025-09-01T00:00:00",
 "disabled": true
 }
]
 },
 "response": []
}
],
},
{
 "name": "replacementlogs",
 "item": [
 {
 "name": "All replacementlogs",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/replacementlogs",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "replacementlogs"
],
 "query": [
 {
 "key": "nr",
 "value": null,
 "type": "text",
 "disabled": true
 },
 {
 "key": "document",
 "value": null,
```

```
 "type": "text",
 "disabled": true
 },
 {
 "key": "ts",
 "value": null,
 "type": "text",
 "disabled": true
 }
]
},
"response": []
}
]
},
{
 "name": "users",
 "item": [
 {
 "name": "All users",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/users",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "users"
],
 "query": [
 {
 "key": "ts",
 "value": "",
 "type": "text",
 "disabled": true
 },
 {
 "key": "code",
 "value": "xx",
 "type": "text",
 "disabled": true
 },
]
 }
 }
 }
]
}
```

```

 {
 "key": "employee",
 "value": "!1",
 "type": "text",
 "disabled": true
 }
]
},
"response": []
}
]
},
{
 "name": "recipes",
 "item": [
 {
 "name": "All recipes",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
],
 "url": {
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 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "recipes"
],
 "query": [
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 "key": "ts",
 "value": "",
 "type": "text",
 "disabled": true
 },
 {
 "key": "code",
 "value": "00001",
 "type": "text",
 "disabled": true
 }
]
 }
 }
 }
]
},

```

```
 "response": []
 }
]
 },
 {
 "name": "nettings",
 "item": [
 {
 "name": "All nettings",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/nettings",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "nettings"
],
 "query": [
 {
 "key": "ts",
 "value": "",
 "type": "text",
 "disabled": true
 },
 {
 "key": "number",
 "value": "1,29",
 "type": "text",
 "disabled": true
 },
 {
 "key": "row_object",
 "value": "ISIK",
 "type": "text",
 "disabled": true
 },
 {
 "key": "row_purchaseinvoice",
 "value": "201400035",
 "type": "text",
 "disabled": true
 }
]
 }
 }
 }
]
 }
}
```

```

 {
 "key": "suppliercode",
 "value": "00009",
 "type": "text",
 "disabled": true
 }
]
}
},
"response": []
}
]
},
{
 "name": "usagelogs",
 "item": [
 {
 "name": "All usagelogs",
 "request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
],
 "url": {
 "raw":
"{{baseUrl}}/v{{version}}/usagelogs?requeststart=>2026-06-01T09:11:05.129Z",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "usagelogs"
],
 "query": [
 {
 "key": "requeststart",
 "value": ">2026-06-01T09:11:05.129Z",
 "type": "text"
 },
 {
 "key": "requestend",
 "value": null,
 "type": "text",
 "disabled": true
 },
 {
 "key": "nr",
 "value": null,

```

```
 "type": "text",
 "disabled": true
 },
 {
 "key": "name",
 "value": null,
 "type": "text",
 "disabled": true
 },
 {
 "key": "ip",
 "value": null,
 "type": "text",
 "disabled": true
 },
 {
 "key": "cu",
 "value": null,
 "type": "text",
 "disabled": true
 },
 {
 "key": "datafield1",
 "value": null,
 "type": "text",
 "disabled": true
 },
 {
 "key": "datafield2",
 "value": null,
 "type": "text",
 "disabled": true
 },
 {
 "key": "code",
 "value": null,
 "type": "text",
 "disabled": true
 }
]
 },
 "response": []
}
]
},
{
 "name": "expenses",
 "item": [
 {
 "name": "All expenses",
```



```
"request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/expenses",
 "host": [
 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "expenses"
],
 "query": [
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 "value": null,
 "type": "text",
 "disabled": true
 },
 {
 "key": "expende",
 "value": null,
 "type": "text",
 "disabled": true
 },
 {
 "key": "customercode",
 "value": "",
 "type": "text",
 "disabled": true
 },
 {
 "key": "customername",
 "value": "",
 "type": "text",
 "disabled": true
 },
 {
 "key": "date",
 "value": null,
 "type": "text",
 "disabled": true
 },
 {
 "key": "type",
 "value": null,
```

```
 "type": "text",
 "disabled": true
 },
 {
 "key": "object",
 "value": null,
 "type": "text",
 "disabled": true
 },
 {
 "key": "status",
 "value": null,
 "type": "text",
 "disabled": true
 },
 {
 "key": "cu",
 "value": null,
 "type": "text",
 "disabled": true
 },
 {
 "key": "ts",
 "value": null,
 "type": "text",
 "disabled": true
 },
 {
 "key": "row_account",
 "value": "7052",
 "type": "text",
 "disabled": true
 },
 {
 "key": "row_suppliercode",
 "value": "00",
 "type": "text",
 "disabled": true
 }
]
 },
 "response": []
}
]
},
{
 "name": "approvals",
 "item": [
 {
 "name": "All approvals",
```

```
"request": {
 "method": "GET",
 "header": [
 {
 "key": "Accept",
 "value": "application/xml"
 }
],
 "url": {
 "raw": "{{baseUrl}}/v{{version}}/approvals",
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 "{{baseUrl}}"
],
 "path": [
 "v{{version}}",
 "approvals"
],
 "query": [
 {
 "key": "module",
 "value": "",
 "disabled": true
 },
 {
 "key": "number",
 "value": "",
 "type": "text",
 "disabled": true
 },
 {
 "key": "id",
 "value": "",
 "type": "text",
 "disabled": true
 },
 {
 "key": "employee",
 "value": "",
 "type": "text",
 "disabled": true
 },
 {
 "key": "role",
 "value": "digiallkiri",
 "type": "text",
 "disabled": true
 },
 {
 "key": "signaturestatus",
 "value": "",
 "type": "text",
```

```
 "disabled": true
 },
 {
 "key": "signature",
 "value": "",
 "type": "text",
 "disabled": true
 },
 {
 "key": "signaturetime",
 "value": "",
 "type": "text",
 "disabled": true
 },
 {
 "key": "ts",
 "value": null,
 "type": "text",
 "disabled": true
 },
 {
 "key": "changedby",
 "value": "",
 "type": "text",
 "disabled": true
 },
 {
 "key": "externalid",
 "value": null,
 "type": "text",
 "disabled": true
 }
]
 },
 "response": []
}
]
}
]
}
]
}
]
}
],
"auth": {
 "type": "apikey",
 "apikey": [
 {
 "key": "value",
 "value": "{{APIKey}}",
 "type": "string"
 }
]
}
```

```

 },
 {
 "key": "key",
 "value": "X-Directo-Key",
 "type": "string"
 },
 {
 "key": "in",
 "value": "header",
 "type": "string"
 }
]
},
"event": [
 {
 "listen": "prerequest",
 "script": {
 "type": "text/javascript",
 "packages": {},
 "requests": {},
 "exec": [
 ""
]
 }
 },
 {
 "listen": "test",
 "script": {
 "type": "text/javascript",
 "requests": {},
 "exec": [
 "// =====",
 "// DIRECTO API - COMPREHENSIVE TEST SUITE",
 "// =====",
 "// These tests run for all requests in the collection",
 "// Covers: Status codes, response structure, data validation,
error handling",
 "",
 "// Test 1: Response Status Code Validation",
 "pm.test(\"Status code is 200 OK\", function () {",
 " pm.response.to.have.status(200);",
 "});",
 "",
 "// Test 2: Response Time Performance Check",
 "pm.test(\"Response time is acceptable (under 5 seconds)\",
function () {",
 " pm.expect(pm.response.responseTime).to.be.below(5000);",
 "});",
 "",
 "// Test 3: Content-Type Header Validation",
 "pm.test(\"Content-Type header is present\", function () {",

```

```

 pm.response.to.have.header("Content-Type");",
 "});",
 "",
 "// Test 4: Response Body Exists",
 "pm.test("Response body is not empty", function () {",
 " pm.expect(pm.response.text()).to.not.be.empty;",
 "});",
 "",
 "// Test 5: Valid JSON or XML Response",
 "pm.test("Response is valid JSON or XML format", function () {",
 " const contentType = pm.response.headers.get("Content-
Type");",
 " ",
 " if (contentType &&
contentType.includes("application/json")) {",
 " pm.expect(() => pm.response.json()).to.not.throw();",
 " } else if (contentType &&
(contentType.includes("application/xml") ||
contentType.includes("text/xml"))) {",
 " pm.expect(() =>
xml2Json(pm.response.text())).to.not.throw();",
 " }",
 "});",
 "",
 "// =====",
 "// RESPONSE STRUCTURE & DATA VALIDATION",
 "// =====",
 "",
 "try {",
 " const contentType = pm.response.headers.get("Content-
Type");",
 " let responseData;",
 " let isJson = false;",
 " ",
 " // Parse response based on content type",
 " if (contentType &&
contentType.includes("application/json")) {",
 " responseData = pm.response.json();",
 " isJson = true;",
 " ",
 " // Test 6: JSON Response Structure",
 " pm.test("JSON response has valid structure", function
() {",
 " ",
 " pm.expect(responseData).to.be.an('object').or.to.be.an('array');",
 " ",
 " });",
 " ",
 " } else if (contentType &&
(contentType.includes("application/xml") ||
contentType.includes("text/xml"))) {",
 " responseData = xml2Json(pm.response.text());",

```

```

"
" // Test 6: XML Response Structure",
" pm.test("XML response has valid structure", function ()
{",
" pm.expect(responseData).to.be.an('object');",
" });",
" }",
" ",
" // =====",
" // ENDPOINT-SPECIFIC DATA VALIDATION",
" // =====",
" ",
" const requestName = pm.info.requestName.toLowerCase();",
" ",
" // Test 7: Response Data Type and Array Validation",
" if (responseData) {",
" if (Array.isArray(responseData)) {",
" pm.test("Response is an array with items", function
() {",
" pm.expect(responseData).to.be.an('array');",
" });",
" ",
" if (responseData.length > 0) {",
" pm.test("Array contains valid objects",
function () {",
" pm.expect(responseData[0]).to.be.an('object');",
" });",
" ",
" // Test 8: Data Integrity - Check for required
fields based on endpoint",
" if (requestName.includes("item")) {",
" pm.test("Items have required fields",
function () {",
" const item = responseData[0];",
" pm.expect(item).to.have.property('id').or.to.have.property('itemId').or.to.h
ave.property('code');",
" });",
" ",
" // Type checking for items",
" pm.test("Item fields have correct data
types", function () {",
" const item = responseData[0];",
" if (item.id)
pm.expect(item.id).to.satisfy(val => typeof val === 'string' || typeof val
=== 'number');",
" if (item.name)
pm.expect(item.name).to.be.a('string');",
" if (item.price)
pm.expect(item.price).to.be.a('number').or.to.be.a('string');",

```

```
" });",
" }",
" ",
" if (requestName.includes(\"customer\")) {",
" pm.test(\"Customers have required fields\",
function () {",
" const customer = responseData[0];",
" pm.expect(customer).to.have.property('id').or.to.have.property('customerId')
.or.to.have.property('code');",
" });",
" ",
" pm.test(\"Customer fields have correct data
types\", function () {",
" const customer = responseData[0];",
" if (customer.id)
pm.expect(customer.id).to.satisfy(val => typeof val === 'string' || typeof
val === 'number');",
" if (customer.name)
pm.expect(customer.name).to.be.a('string');",
" if (customer.email)
pm.expect(customer.email).to.be.a('string');",
" });",
" }",
" ",
" if (requestName.includes(\"order\")) {",
" pm.test(\"Orders have required fields\",
function () {",
" const order = responseData[0];",
" pm.expect(order).to.have.property('id').or.to.have.property('orderId').or.to
.have.property('orderNumber');",
" });",
" ",
" pm.test(\"Order fields have correct data
types\", function () {",
" const order = responseData[0];",
" if (order.id)
pm.expect(order.id).to.satisfy(val => typeof val === 'string' || typeof val
=== 'number');",
" if (order.date)
pm.expect(order.date).to.be.a('string');",
" if (order.total)
pm.expect(order.total).to.be.a('number').or.to.be.a('string');",
" });",
" }",
" ",
" if (requestName.includes(\"invoice\")) {",
" pm.test(\"Invoices have required fields\",
function () {",
" const invoice = responseData[0];",
```



```

"
pm.expect(invoice).to.have.property('id').or.to.have.property('invoiceId').o
r.to.have.property('invoiceNumber');",
"
 });",
"
 ",
"
 pm.test(\"Invoice fields have correct data
types\", function () {",
"
 const invoice = responseData[0];",
"
 if (invoice.id)
pm.expect(invoice.id).to.satisfy(val => typeof val === 'string' || typeof
val === 'number');",
"
 if (invoice.date)
pm.expect(invoice.date).to.be.a('string');",
"
 if (invoice.amount)
pm.expect(invoice.amount).to.be.a('number').or.to.be.a('string');",
"
 });",
"
 }",
"
 ",
"
 if (requestName.includes(\"stocklevel\")) {",
"
 pm.test(\"Stock levels have required
fields\", function () {",
"
 const stock = responseData[0];",
"
pm.expect(stock).to.have.property('itemId').or.to.have.property('item').or.t
o.have.property('quantity');",
"
 });",
"
 ",
"
 pm.test(\"Stock level fields have correct
data types\", function () {",
"
 const stock = responseData[0];",
"
 if (stock.quantity)
pm.expect(stock.quantity).to.be.a('number').or.to.be.a('string');",
"
 if (stock.itemId)
pm.expect(stock.itemId).to.satisfy(val => typeof val === 'string' || typeof
val === 'number');",
"
 });",
"
 }",
"
 ",
"
 if (requestName.includes(\"allocation\")) {",
"
 pm.test(\"Allocations have required fields\",
function () {",
"
 const allocation = responseData[0];",
"
pm.expect(allocation).to.have.property('id').or.to.have.property('itemId').o
r.to.have.property('quantity');",
"
 });",
"
 }",
"
 ",
"
 if (requestName.includes(\"itemclass\")) {",
"
 pm.test(\"Item classes have required
fields\", function () {",

```



```

" // =====",
" // DATA INTEGRITY CHECKS",
" // =====",
" ",
" // Test 9: No Null or Undefined Critical Values",
" if (Array.isArray(responseData) && responseData.length > 0)
{",
 " pm.test(\"Critical fields are not null or undefined\",
function () {",
 " responseData.forEach((item, index) => {",
 " if (item.id !== undefined) {",
 " pm.expect(item.id, `Item ${index} has
null/undefined id`).to.not.be.null;",
 " pm.expect(item.id, `Item ${index} has
null/undefined id`).to.not.be.undefined;",
 " }",
 " });",
 " });",
 " },",
 " ",
 " // Test 10: Consistent Data Structure Across Array Items",
 " if (Array.isArray(responseData) && responseData.length > 1)
{",
 " pm.test(\"Array items have consistent structure\",
function () {",
 " const firstItemKeys =
Object.keys(responseData[0]).sort();",
 " const allConsistent = responseData.every(item => {",
 " const itemKeys = Object.keys(item).sort();",
 " return JSON.stringify(firstItemKeys) ===
JSON.stringify(itemKeys);",
 " });",
 " ",
 " // This is a soft check - log warning if inconsistent
but don't fail",
 " if (!allConsistent) {",
 " console.warn(\"Warning: Array items have
inconsistent structure\");",
 " }",
 " pm.expect(true).to.be.true; // Always pass but log
the warning",
 " });",
 " },",
 " ",
 " } catch (error) {",
 " // =====",
 " // ERROR HANDLING",
 " // =====",
 " ",
 " pm.test(\"Response parsing error handled gracefully\",
function () {",

```

```

 " console.error(\"Error parsing response:\",
error.message);",
 " console.error(\"Response body:\",
pm.response.text().substring(0, 500));",
 " ",
 " // Check if it's an authentication error",
 " if (pm.response.code === 401 || pm.response.code === 403)
{",
 " pm.expect.fail(\"Authentication failed - check X-
Directo-Key header\");",
 " }",
 " ",
 " // Check if it's a server error",
 " if (pm.response.code >= 500) {",
 " pm.expect.fail(\"Server error - API may be
unavailable\");",
 " }",
 " ",
 " // For other errors, log but don't fail the test suite",
 " console.warn(\"Unexpected response format or parsing
error\");",
 " }",
 " }",
 " // =====",
 " // SECURITY & HEADERS VALIDATION",
 " // =====",
 " ",
 " // Test 11: Security Headers Check (Optional but recommended)",
 " pm.test(\"Response has security considerations\", function () {",
 " // This is informational - we check but don't fail",
 " const hasSecurityHeaders = pm.response.headers.has(\"X-
Content-Type-Options\") ||",
 " pm.response.headers.has(\"X-Frame-
Options\") ||",
 " pm.response.headers.has(\"Strict-
Transport-Security\");",
 " ",
 " if (!hasSecurityHeaders) {",
 " console.info(\"Info: No common security headers
detected\");",
 " }",
 " pm.expect(true).to.be.true; // Always pass",
 " });",
 " // Test 12: SQL injection (For testing add {{payload}} to
parameters like \\v1\\items\\code={{payload}})",
 " pm.test(\"Check SQL error messages\", function () {",
 " const body = pm.response.text().toLowerCase();",
 " const sqlErrors = [\"sql\", \"mysql\", \"syntax error\",
\"driver\", \"database\", \"query\"];",
 " sqlErrors.forEach(error => {",

```

```

 pm.expect(body).to.not.include(error);",
 " });",
 "});",
 "",
 "pm.test(\"Response time normal (Time-based Blind SQL
Injection)\", function () {",
 " pm.expect(pm.response.responseTime).to.be.below(2000); ",
 "});",
 "",
 "// Test: Error messages disclosere",
 "pm.test(\"Error message is generic and safe\", function () {",
 " const responseBody = pm.response.text();",
 " const sensitiveTerms = [\"SQL\", \"stack trace\", \"syntax
error at\", \"fatal error\", \"uncaught exception\", \"on line [0-9]\",
\"original_query\", \"exception\", \"database\"];",
 " sensitiveTerms.forEach(term => {",
 " pm.expect(responseBody.toLowerCase()).to.not.include(term.toLowerCase());",
 " });",
 "});",
 "",
 "pm.test(\"Response should not contain sensitive data\", function
() {",
 " pm.expect(pm.response.text()).to.not.include(\"item_name\");",
 "});",
 "",
 "// Test xx: Information Disclosure (DISABLED)",
 "pm.test(\"Should not reveal server technology in headers\",
function () {",
 " const headersToHide = [",
 " \"X-AspNet-Version\",",
 " \"X-AspNetMvc-Version\",",
 " \"X-Powered-By\",",
 " \"Server\"",
 "];",
 " headersToHide.forEach(header => {",
 " const value = pm.response.headers.get(header);",
 " pm.expect(value, `Header ${header}
found!`).to.be.oneOf([undefined, \"\"]);",
 " });",
 "});",
 "",
 "// =====",
 "// SUMMARY LOGGING",
 "// =====",
 "",
 "console.log(\"=====\\");",
 "console.log(\"Test Summary for:\", pm.info.requestName);",
 "console.log(\"Status Code:\", pm.response.code);",

```

```
 "console.log(\"Response Time:\", pm.response.responseTime +
 \"ms\");",
 "console.log(\"Response Size:\", pm.response.size().body + \"
 bytes\");",
 "console.log(\"=====\\");"
]
 }
},
],
"variable": [
 {
 "key": "baseUrl",
 "value": "https://login.directo.ee/apidirect"
 },
 {
 "key": "version",
 "value": "1"
 },
 {
 "key": "payload",
 "value": ""
 }
]
}
```

Save the file as **collection.json** (File → Save As, choose „All Files“ as the file type so it doesn't save with a .txt extension).

## Importing the file into Postman

1. Open Postman.
2. Click **Import** (top left corner).
3. Choose **File** and select the **collection.json** file you just saved.
4. Click **Import**.

The collection now appears in the left sidebar under **Collections**.

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