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Ta strona nie jest jeszcze kompletnie przetłumaczona. Pomoc mile widziana.
(po skompletowaniu usuń ten komentarz)

Creating a POSTMAN collection file

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

Directo API.postman_collection

```
{
  "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    \n5. **Call GET
/v1/openapi.json** to see which resources and fields are enabled for
your key.\n    \n\n### Base URL & Versioning\n\n**Base URL
Structure:**\n\n```\n{{baseUrl}}/v{{version}}/{resource}\n\n
```\n\n**Current Configuration:**\n\n- `baseUrl`:
`https://login.directo.ee/apidirect`\n   \n- `version`: `1` (current
API version)\n   \n\n**Example Full
URL:**\n\n```\nhttps://login.directo.ee/apidirect/v1/items\n\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``` http\nX-Directo-Key: YOUR_API_KEY_HERE\n\n
```\n\n### Getting Your API Key\n\nIf your company doesn't have an API
key yet, contact your Directo project manager – they will generate
it.\n\nIf a key has already been created, there's no need to request it
again: any user with SUPER rights can view it on the employee card
under **Settings → Integration**.\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``` http\nAccept: application/json\n\n ```\n\n**Example Request:**\n\n``` bash\ncurl -X GET \"{{baseUrl}}/v{{version}}/items\" \\\n  -H \"X-Directo-Key: YOUR_API_KEY\" \\\n  -H \"Accept: application/json\"\n\n ```\n\n### XML Format\n\n``` http\nAccept: application/xml\n\n ```\n\n**Example Request:**\n\n``` bash\ncurl -X GET \"{{baseUrl}}/v{{version}}/items\" \\\n  -H \"X-Directo-Key: YOUR_API_KEY\" \\\n  -H \"Accept: application/xml\"\n\n ```\n\n---\n\n## □ API Discovery (openapi.json)\n\nEvery API key has a machine-readable description of the API in OpenAPI 3.0 format:\n\n``` bash\ncurl -H \"X-Directo-Key: YOUR_API_KEY_HERE\" \\\n https://login.directo.ee/apidirect/v1/openapi.json\n\n ```\n\nThe description is **key-specific**: it lists only the resources and fields configured for that API key in Directo. If the key configuration changes, the description changes too.\n\nToimeta\n\n### What the description contains\n\n| Section | Content |\n| --- | --- |\n| `paths` | Resources enabled for the key (e.g. `/v1/items`). All are GET requests. |\n| `parameters` | Fields you can filter by. All are typed as `string` because the value is a filter expression (e.g. `>2025-01-01`). |\n| `responses → 200` | Response fields and their data types (string, number, integer, boolean, date-time), in both JSON and XML. |\n| `responses → 400/403/500` | Possible error messages with examples. |\n| `securitySchemes` | Authentication via the `X-Directo-Key` header. |\n\n### Filter parameter naming\n\n| Prefix | Meaning | Example |\n| --- | --- | --- |\n| (none) | Header / master record field | `/invoices?customercode=K001` |\n| `row_` | Document line field | `/invoices?row_item=9810` |\n| `data_row_code`, `data_row_content`, `data_row_param` | Custom data field (`datafields`) | `/items?data_row_code=COLOR` |\n| `row_sumdiscount_`, `row_campaign_` | Price formula sum discount and campaign lines | `/priceformulas?row_campaign_campaign=SUMMER` |\n\n**Note:** You can only filter by fields that are selected for output on the key. Otherwise the API returns `Filter „x“ not selected to output`. The allowed filters are listed under `parameters` in `openapi.json`.\n\n### How to use it\n\n- **Postman / Insomnia**: Import → Link. This generates a complete request collection automatically.\n    \n- **Swagger UI / Swagger Editor**: browse and test the API in a browser.\n    \n- **Code generators** (e.g. openapi-generator): generate client libraries.\n    \n- **AI agents and MCP servers**: describe the available tools automatically.\n    \n\nThe description shows which data can be retrieved with the key. Treat it with the same care as the key itself: do not publish it, and always send the key in the header, never in the URL.\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 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)**  \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)**  \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_\\\
```

```
quantity - reserved, it's calculated)\n\n ```\n\n**Example 2: Order
Totals**\n\n``` http\n WORKS: GET /orders?row_price=>1000\n
(row_price is stored per line item)\n MIGHT NOT WORK: GET
/orders?order_total=>5000\n   (if order_total is sum of all line items,
it's calculated)\n ALTERNATIVE: GET
/orders?date=>2025-01-01&status=COMPLETED\n   (then calculate totals in
your application)\n\n ```\n\n**Example 3: Customer Data**\n\n```
http\n WORKS: GET /customers?country=EE&city=Tallinn\n   (both are
stored fields)\n DOESN'T WORK: GET /customers?full_address=*Tallinn*\n
(if full_address is concatenation of address+city+country)\n
ALTERNATIVE: GET /customers?city=Tallinn\n   (filter by individual
stored fields)\n\n ```\n\n### Basic Filtering\n\nFilter by exact match
using any stored field name:\n\n``` http\nGET
{{baseUrl}}/v{{version}}/items?code=9810\nGET
{{baseUrl}}/v{{version}}/items?status=UUS\nGET
{{baseUrl}}/v{{version}}/orders?number=12345\nGET
{{baseUrl}}/v{{version}}/customers?country=EE\nGET
{{baseUrl}}/v{{version}}/items?class=KAUP\n\n ```\n\n**Key Principle**:
Use the exact field name as it appears in the API response (or as you
see it in the ERP system).\n\n### Contains Filtering\n\nPartial
filtering allows you to search for values **containing** a specific
substring.\n\nThis works like SQL `LIKE '%text%'` logic.\n\nUse it when
you need flexible filtering for names, codes, descriptions, or any
other text fields\n\n```\nGET
{{baseUrl}}/v{{version}}/customers?name=%john%\n\n ```\n\n###
Comparison Operators\n\nThe API supports powerful comparison operators
for advanced filtering:\n\n#### Greater Than (`>`)\n\n``` http\nGET
{{baseUrl}}/v{{version}}/orders?date=>2025-09-01T00:00:00\nGET
{{baseUrl}}/v{{version}}/invoices?row_quantity=>5000\n\n ```\n\n####
Less Than (`<`)\n\n``` http\nGET
{{baseUrl}}/v{{version}}/orders?date=<2025-09-03T00:00:00\nGET
{{baseUrl}}/v{{version}}/invoices?row_quantity=<5000\n\n ```\n\n####
Not Equal (`!`)\n\n``` http\nGET
{{baseUrl}}/v{{version}}/items?country=!EE\nGET
{{baseUrl}}/v{{version}}/orders?status=!CLOSED\nGET
{{baseUrl}}/v{{version}}/customers?payment_terms=!COD\n\n ```\n\n####
Greater Than or Equal (`>=`)\n\n``` http\nGET
{{baseUrl}}/v{{version}}/items?price=>100\nGET
{{baseUrl}}/v{{version}}/orders?date=>2025-01-01T00:00:00\n\n
```\n\n#### Less Than or Equal (`<=`)\n\n``` http\nGET
{{baseUrl}}/v{{version}}/items?weight=<5.5\nGET
{{baseUrl}}/v{{version}}/orders?date=<2025-12-31T23:59:59\n\n
```\n\n### Range Filtering\n\nCombine operators to create ranges (AND
logic):\n\n``` http\nGET
{{baseUrl}}/v{{version}}/orders?date=>2025-09-01T00:00:00&date=<2025-09
-03T00:00:00\nGET
{{baseUrl}}/v{{version}}/items?quantity=>10&quantity=<100\nGET
{{baseUrl}}/v{{version}}/invoices?total=>1000&total=<5000\nGET
{{baseUrl}}/v{{version}}/items?price=>50&price=<=200\n\n ```\n\n###
Multiple Values (OR Logic)\n\nUse comma-separated lists to filter by
multiple values:\n\n``` http\nGET
```

```
{{baseUrl}}/v{{version}}/items?warehouse=AALTR,AIPM,WAREHOUSE1\nGET
{{baseUrl}}/v{{version}}/orders?status=NEW,PENDING,PROCESSING\nGET
{{baseUrl}}/v{{version}}/customers?country=EE,LV,LT\nGET
{{baseUrl}}/v{{version}}/items?class=KAUP,TEENUS,TOORAINE\n\n
```\n\n### Timestamp-Based Filtering (Synchronization)\n\nUse the `ts`
parameter to retrieve records modified after a specific timestamp
(ideal for synchronization):\n\n``` http\nGET
{{baseUrl}}/v{{version}}/items?ts=>2025-10-01T08:11:05.129Z\nGET
{{baseUrl}}/v{{version}}/customers?ts=>2025-01-01T00:00:00Z\nGET
{{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``` http\nGET
{{baseUrl}}/v{{version}}/orders?row_item=343443\nGET
{{baseUrl}}/v{{version}}/invoices?row_quantity=>10\nGET
{{baseUrl}}/v{{version}}/orders?row_description=Maja\nGET
{{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``` http\nGET
{{baseUrl}}/v{{version}}/items?data_row_code=BRAND\nGET
{{baseUrl}}/v{{version}}/items?data_row_code=ART_PROJ,BRAND\nGET
{{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``` http\nGET
{{baseUrl}}/v{{version}}/orders?status=NEW&date=>2025-11-13T00:00:00&cu
stomer_code=CUST001\n\n ```\n\n**Get items with low stock in specific
warehouses, excluding closed items:**\n\n``` http\nGET
{{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``` http\nGET
{{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``` http\nGET
{{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``` http\nGET
{{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 |\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 Endpint in this section are samples and dosn't refelct all available resources. View Postman collection data to get full list. This samples are general. The resources available to your key are listed in openapi.json:\n\n``` bash\ncurl -H \"X-Directo-Key: YOUR_API_KEY_HERE\" \\\n https://login.directo.ee/apidirect/v1/openapi.json\n\n ```\n\nResponse field list managed in Directo ERP.\n\n```\nGET {{baseUrl}}/v{{version}}/openapi.json       # API description — enabled resources, fields\nGET {{baseUrl}}/v{{version}}/sales_quotations   # Sales quotations — header and rows\nGET {{baseUrl}}/v{{version}}/orders   # Sales orders — header and rows\nGET {{baseUrl}}/v{{version}}/invoices   # Sales invoices — header and rows\nGET
```

```
{{baseUrl}}/v{{version}}/purchase_orders    # Purchase orders — header
and rows\nGET {{baseUrl}}/v{{version}}/stock_receipts     # Stock
receipts — received goods rows\nGET
{{baseUrl}}/v{{version}}/purchase_invoices  # Purchase invoices —
header and rows\nGET {{baseUrl}}/v{{version}}/purchase_payments  #
Outgoing payments — paid purchase invoices\nGET
{{baseUrl}}/v{{version}}/customers          # Customers — card,
contacts, datafields\nGET {{baseUrl}}/v{{version}}/suppliers          #
Suppliers — card, bank accounts\nGET {{baseUrl}}/v{{version}}/contacts
# Contact persons — customer contacts\nGET
{{baseUrl}}/v{{version}}/items              # Items — card, prices,
packages\nGET {{baseUrl}}/v{{version}}/itemclasses        # Item
classes — accounts, VAT settings\nGET
{{baseUrl}}/v{{version}}/priceformulas      # Price formulas —
discounts, campaigns\nGET {{baseUrl}}/v{{version}}/stocklevels        #
Stock levels — quantity per warehouse\nGET
{{baseUrl}}/v{{version}}/stocklevels_sn     # Stock levels — per serial
number\nGET {{baseUrl}}/v{{version}}/allocations        # Allocations —
reserved and incoming quantities\nGET {{baseUrl}}/v{{version}}/accounts
# Chart of accounts — GL accounts\nGET
{{baseUrl}}/v{{version}}/transactions       # GL transactions —
debit/credit rows\nGET {{baseUrl}}/v{{version}}/deleted            #
Deletion log — deleted records\nGET
{{baseUrl}}/v{{version}}/financial_budgets  # Financial budgets —
budget rows\nGET {{baseUrl}}/v{{version}}/events             # Events —
CRM events and tasks\nGET {{baseUrl}}/v{{version}}/receipts           #
Incoming payments — paid sales invoices\nGET
{{baseUrl}}/v{{version}}/deliveries         # Deliveries — shipped
goods rows\nGET {{baseUrl}}/v{{version}}/movements          # Stock
movements — warehouse transfers\nGET {{baseUrl}}/v{{version}}/objects
# Objects — accounting dimensions\nGET
{{baseUrl}}/v{{version}}/projects           # Projects — card and
rows\nGET {{baseUrl}}/v{{version}}/resources          # Resources —
work and time entries\nGET {{baseUrl}}/v{{version}}/sales_contracts
# Sales contracts — recurring billing terms\nGET
{{baseUrl}}/v{{version}}/replacementlogs    # Replacement log — code
replacement history\nGET {{baseUrl}}/v{{version}}/users              #
Users — user and employee cards\nGET {{baseUrl}}/v{{version}}/recipes
# Recipes — production bills of materials\nGET
{{baseUrl}}/v{{version}}/nettings           # Nettings — offset
documents\nGET {{baseUrl}}/v{{version}}/usagelogs          # API usage
log — request history\nGET {{baseUrl}}/v{{version}}/expenses
# Expense reports — employee expenses\nGET
{{baseUrl}}/v{{version}}/approvals          # Approvals — document
approval workflow\nGET {{baseUrl}}/v{{version}}/absences           #
Absences — employee leave records\nGET {{baseUrl}}/v{{version}}/assets
# Assets — devices and equipment\nGET
{{baseUrl}}/v{{version}}/customer_assets    # Customer assets —
customer-owned devices\nGET {{baseUrl}}/v{{version}}/stocks
# Stocks — stock information\nGET
{{baseUrl}}/v{{version}}/wage_calculations  # Wage calculations — HR
```

```
wage calculations\n\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`: 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### Customers\n\nAccess customer and client
information.\n\n**Endpoint:** `GET
{{baseUrl}}/v{{version}}/customers`\n\n**Description**: Retrieve
customer master data including contact information, addresses, payment
terms, and credit limits.\n\n**Use Cases:**\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**Common Filters:** `code`,
`name`, `country`, `city`, `payment_terms`, `credit_limit`, `closed`,
`ts`\n\n**Example Requests:**\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**Response Fields:**\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### Orders\n\nRetrieve
sales orders and purchase orders.\n\n**Endpoint:** `GET
{{baseUrl}}/v{{version}}/orders`\n\n**Description**: Retrieve order
documents including headers and line items. Supports filtering by date
ranges, status, customer, and line item details.\n\n**Use Cases:**\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**Common Filters:** `number`, `date`, `status`,
`customer_code`, `warehouse`, `closed`, `row_item`, `row_quantity`,
`ts`\n\n**Example Requests:**\n\n``` http\n# Get orders from date
range\nGET
{{baseUrl}}/v{{version}}/orders?date=>2025-09-01T00:00:00&date=<2025-09
-03T00:00:00\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**Response Fields:**\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   -
`row_item`: Item code\n   \n   - `row_quantity`: Quantity\n
\n   - `row_price`: Unit price\n   \n   - `row_description`:
Line description\n   \n\n---\n\n### Invoices\n\nAccess invoice
data and billing information.\n\n**Endpoint:** `GET
{{baseUrl}}/v{{version}}/invoices`\n\n**Description**: Retrieve invoice
documents including headers and line items. Supports filtering by date
ranges, status, customer, and line item details.\n\n**Use Cases:**\n\n-
Retrieve invoice history for accounting\n   \n- Export billing data to
accounting systems\n   \n- Filter by date, status, or customer\n
\n- Track invoices with specific items\n   \n- Monitor payment
status\n   \n\n**Common Filters:** `number`, `date`, `status`,
`customer_code`, `total`, `closed`, `row_item`, `row_quantity`,
`ts`\n\n**Example Requests:**\n\n``` http\n# Get invoices from last
month\nGET
{{baseUrl}}/v{{version}}/invoices?date=>2025-10-01T00:00:00&date=<2025-
11-01T00:00:00\n# Get unpaid invoices\nGET
{{baseUrl}}/v{{version}}/invoices?closed=0\n# Get invoices containing
specific item\nGET {{baseUrl}}/v{{version}}/invoices?row_item=9810\n\n
```\n\n**Response Fields:**\n\n- `number`: Invoice number\n   \n-
`date`: Invoice date\n   \n- `due_date`: Payment due date\n   \n-
`status`: Invoice status\n   \n- `customer_code`: Customer code\n
\n- `customer_name`: Customer name\n   \n- `total`: Invoice total
amount\n   \n- `currency`: Currency code\n   \n- `closed`: Payment
status\n   \n- `lines`: Array of invoice line items\n   \n\n---
\n\n### Stock Levels\n\nMonitor inventory levels across
warehouses.\n\n**Endpoint:** `GET
{{baseUrl}}/v{{version}}/stocklevels`\n\n**Description**: Retrieve
current stock levels for items across all warehouses. Shows quantity on
hand, reserved quantity, and available quantity.\n\n**Use Cases:**\n\n-
Check current inventory levels\n   \n- Monitor stock across
locations\n   \n- Identify low-stock items\n   \n- Sync inventory to
e-commerce platforms\n   \n- Calculate available-to-promise\n
```

```
\n\n**Common Filters:** `item_code`, `warehouse`, `quantity`,
`reserved_quantity`, `ts`\n\n**Example Requests:**\n\n``` http\n# Get
stock levels for specific item\nGET
{{baseUrl}}/v{{version}}/stocklevels?item_code=9810\n# Get low stock
items\nGET {{baseUrl}}/v{{version}}/stocklevels?quantity=<10\n# Get
stock in specific warehouse\nGET
{{baseUrl}}/v{{version}}/stocklevels?warehouse=AALTR\n# Get stock
changes since last sync\nGET
{{baseUrl}}/v{{version}}/stocklevels?ts=2025-11-20T07:00:00Z\n\n
```\n\n**Response Fields:**\n\n- `item_code`: Item code\n    \n-
`warehouse`: Warehouse code\n   \n- `quantity`: Quantity on hand\n
\n- `reserved_quantity`: Reserved/allocated quantity\n   \n-
`available_quantity`: Available quantity (may be calculated)\n   \n-
`location`: Storage location within warehouse\n   \n\n---\n\n### Stock
Levels with Serial/Batch Numbers\n\nRetrieve detailed stock information
including serial numbers and batch numbers.\n\n**Endpoint:** `GET
{{baseUrl}}/v{{version}}/stocklevels_sn`\n\n**Description**: Retrieve
stock levels with serial number and batch number tracking. Essential
for lot-tracked and serialized inventory.\n\n**Use Cases:**\n\n- Track
serialized inventory (electronics, equipment)\n   \n- Manage batch-
tracked items (food, pharmaceuticals)\n   \n- Trace product lots for
recalls\n   \n- Monitor expiration dates by batch\n   \n- Audit
serial number assignments\n   \n\n**Common Filters:** `item_code`,
`warehouse`, `serial_number`, `batch_number`, `ts`\n\n**Example
Requests:**\n\n``` http\n# Get serialized stock for specific item\nGET
{{baseUrl}}/v{{version}}/stocklevels_sn?item_code=LAPTOP001\n# 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.\n\n**Use Cases:**\n\n- Check reserved inventory\n
\n- Monitor order allocations\n   \n- Prevent overselling\n   \n-
Calculate available-to-promise\n   \n- Track allocation by order\n
\n\n**Common Filters:** `code`, `warehouse`, `ts`\n\n**Example
Requests:**\n\n``` 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.\n\n**Use Cases:**\n\n- Get product categories for
navigation\n    \n- Sync classification hierarchies\n    \n- Filter
items by class\n    \n- Build category trees for e-commerce\n
\n\n**Common Filters:** `code`, `name`, `parent_code`,
`ts`\n\n**Example Requests:**\n\n``` 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.\n\n**Use Cases:**\n\n- Retrieve pricing rules for
specific items\n   \n- Calculate dynamic prices in external systems\n
\n- Sync pricing logic\n   \n- Audit pricing formulas\n
\n\n**Common Filters:** `row_item`, `customer_code`, `ts`\n\n**Example
Requests:**\n\n``` 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    {\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 enababled | 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    \n- Invalid or
expired API key\n    \n- **Solution:** Verify your API key and ensure
it's included in the header\n    \n\n**403 Forbidden:**\n\n- API key
lacks permissions for the requested resource\n    \n- **Solution:**
Contact your administrator to grant necessary permissions\n
\n\n**400 Bad Request:**\n\n- Invalid filter syntax\n    \n- Malformed
date format (use ISO 8601: `2025-11-20T07:30:00Z`)\n    \n- Filtering
by calculated field\n    \n- **Solution:** Check filter parameters and
date formats\n    \n\n**404 Not Found:**\n\n- Incorrect endpoint URL\n
\n- Invalid API version\n    \n- **Solution:** Verify the endpoint path
and version number\n    \n\n**429 Too Many Requests:**\n\n- Rate limit
exceeded\n    \n- **Solution:** Implement exponential backoff and
```

```
reduce request frequency\n    \n\n**500 Internal Server Error:**\n\n-
Server-side processing error\n    \n- **Solution:** Retry after a
delay; contact support if persistent\n    \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    \n- **Burst Limit:** Short bursts of
higher traffic may be allowed\n    \n- **Daily Limits:** May apply
based on your subscription\n    \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\n**Benefits:**\n\n- Reduces data transfer\n    \n- Faster
response times\n   \n- Lower server load\n   \n- Stays within rate
limits\n   \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\n#### 3\\. Cache Static Data\n\nCache data that changes
infrequently:\n\n- Item classes (cache for 24 hours)\n    \n- Price
formulas (cache for 1 hour)\n    \n- Customer master data (cache for 6
hours)\n    \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\n#### 5\\. Implement Exponential Backoff\n\nFor transient errors
(429, 503), retry with increasing delays:\n\n```\n1st retry: wait 1
second\n2nd retry: wait 2 seconds\n3rd retry: wait 4 seconds\n4th
retry: wait 8 seconds\n\n ```\n\n#### 6\\. Batch Related
Requests\n\nGroup related operations to minimize round
trips:\n\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 ```\n\n#### 7\\. Monitor API Usage\n\nTrack your
API consumption:\n\n- Log request counts per endpoint\n   \n- Monitor
response times\n   \n- Track error rates\n   \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?document=klient&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``` http\n# Remove filters
one by one to identify the issue\nGET /items
# No filters\nGET /items?warehouse=AALTR                    # Add one
filter\nGET /items?warehouse=AALTR&quantity=>0        # Add another
filter\n# Verify date format (must be ISO 8601)\n□ WRONG:
?date=2025-11-20\n□ CORRECT: ?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``` http\n# Verify header name
(case-sensitive)\n□ WRONG: X-Api-Key: YOUR_KEY\n□ WRONG: X-Directo-Api-
Key: YOUR_KEY\n□ CORRECT: 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 \"{{baseUrl}}/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```
http\n# Verify Accept header\nFor JSON: Accept: application/json\nFor
XML: Accept: application/xml\n# Check API version in
URL\n{{baseUrl}}/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□ 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### 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### 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### 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### 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### Issue: `usagelogs` missing older
entries\n\n**Possible Cause:** Log retention is capped by Administrator
settings  \n(\"Log age in days\" / \"Log age in transactions\" – see
```

```
\n[Administraatori
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\nWhen contacting support,
include:\n\n1. **Request Details:**\n    \n    ```\n
Method: GET\n                                        URL:
{{baseUrl}}/v1/items?warehouse=AALTR\n
Headers:\n                                          X-Directo-Key:
[REDACTED]\n                                          Accept:
application/json\n    \n     ```\n    \n2. **Response Details:**\n
\n    ```\n                                       Status Code: 400\n
Response Body: {\"error\": \"Invalid filter\"}\n    \n     ```\n
\n3. **Expected Behavior:**\n    \n    ```\n
Expected to receive items from AALTR warehouse\n    \n     ```\n
\n4. **Actual Behavior:**\n    \n    ```\n
Received 400 error with \"Invalid filter\" message\n    \n     ```\n
\n5. **Troubleshooting Steps Taken:**\n    \n    ```\n
- Verified field name in response\n
- Tested without filters (works)\n                                    -
Checked URL encoding\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
etc)\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- Added API discovery (openapi.json) 23.09.2026\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# Make a
request without filters to see all available fields\nGET
/items?code=1011\n# Examine the response to discover:\n# - Field names
(for filtering)\n# - Data types\n# - Custom fields (in datafields
array)\n\n ```\n\n### Tip 2: Test Filters in ERP First\n\nBefore
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\nSet up collection variables
for easy environment switching:\n\n- `baseUrl`:
`https://login.directo.ee/apidirect`\n    \n- `version`: `1`\n    \n-
`apiKey`: `YOUR_API_KEY`\n    \n\n### Tip 4: Build Filter Strings
Programmatically\n\n``` python\n# Python example\ndef
build_filter_url(base_url, filters):\n    params =
\"&\".join([f\"{k}={v}\" for k, v in filters.items()])\n    return
f\"{base_url}?{params}\"\nfilters = {\n    \"warehouse\": \"AALTR\",\n
\"quantity\": \">0\",\n    \"status\": \"ACTIVE\"\n}\nurl =
build_filter_url(\"{{baseUrl}}/v1/items\", filters)\n# Result:
{{baseUrl}}/v1/items?warehouse=AALTR&quantity=>0&status=ACTIVE\n\n
```\n\n### Tip 5: Handle Timestamps Consistently\n\n``` python\n#
Always use ISO 8601 format with timezone\nfrom datetime import
datetime, timezone\n# Get current timestamp\nnow =
datetime.now(timezone.utc).isoformat()\n# Result:
2025-11-20T07:30:00+00:00\n# Or use Z notation\nnow =
datetime.now(timezone.utc).strftime(\"%Y-%m-%dT%H:%M:%SZ\")\n# Result:
2025-11-20T07:30:00Z\n\n ```\n\n### Tip 6: Implement Robust Error
Handling\n\n``` python\n# Python example with comprehensive error
handling\nimport requests\nimport time\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###
Tip 7: Use openapi.json to discover available fields and filters.\n\nIt
is faster than an unfiltered request, downloads no data and includes
field types.\n\n``` bash\ncurl -H \"X-Directo-Key: YOUR_API_KEY_HERE\"
\\\n     https://login.directo.ee/apidirect/v1/openapi.json\n\n
```\n\n---\n\n**Last Updated:** 13-10-2026  \n**API Version:** 1
\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
=<2025-12-01T00:00:00\n?status=NEW,PENDING\n?country=!EE\n?ts=2025-11-2
0T07:00:00Z\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\n_This 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"
  },
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      "item": [
        {
          "name": "v{version}",
```

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```

```
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                        },
                        {
                          "key": "X-Directo-Key",
                          "value": "<API Key>",
```

```
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scheme: apikey"
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                          "path": [
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                          ],
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```

```
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```

```
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                          },
                          {
                            "key": "X-Directo-Key",
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scheme: apikey"
                          }
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```

```
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                        "orders"
                      ],
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```

```
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```

```
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scheme: apikey"
                          }
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                          ]
                        }
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                          "value": "application/xml"
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```

```
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          },
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```

```
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                      },
                      {
                        "key": "row_stock",
                        "value": "223TEST",
                        "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"
                        }
```

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                        ],
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                          "host": [
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                          "path": [
                            "v{{version}}",
                            "purchase_orders"
                          ],
                          "query": [
                            {
                              "key": "ts",
                              "value": "1949-07-30T08:11:05.129Z"
                            }
                          ]
                        }
                      },
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                      "code": 200,
                      "_postman_previewlanguage": "xml",
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                          "value": "application/xml"
                        }
                      ],
                      "cookie": [],
                      "body": ""
                    }
                  ]
                }
              ]
            },
            {
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              "item": [
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                  "request": {
                    "method": "GET",
                    "header": [
                      {
                        "key": "Accept",
                        "value": "application/xml"
                      }
                    ],
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                      "raw": "{{baseUrl}}/v{{version}}/stock_receipts",
                      "host": [
```

```
            "{{baseUrl}}"
          ],
          "path": [
            "v{{version}}",
            "stock_receipts"
          ],
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              "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
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            {
              "key": "country",
              "value": "!EE",
              "disabled": true
            },
            {
              "key": "date",
              "value": "<2025-09-03T00:00:00",
              "disabled": true
```

```
                        },
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                          "value": ">2025-09-01T00:00:00",
                          "disabled": true
                        },
                        {
                          "key": "row_stock",
                          "value": "223TEST",
                          "disabled": true
                        }
                      ]
                    }
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                        "header": [
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                            "key": "Accept",
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                          },
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                            "key": "X-Directo-Key",
                            "value": "<API Key>",
                            "description": "Added as a part of security
scheme: apikey"
                          }
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                          ],
                          "path": [
                            "v{{version}}",
                            "stock_receipts"
                          ]
                        }
                      },
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                      "code": 200,
                      "_postman_previewlanguage": "xml",
                      "header": [
                        {
                          "key": "Content-Type",
                          "value": "application/xml"
                        }
```

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                    ],
                    "cookie": [],
                    "body": ""
                  }
                ]
              }
            ]
          },
          {
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            "item": [
              {
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                "request": {
                  "method": "GET",
                  "header": [
                    {
                      "key": "Accept",
                      "value": "application/xml"
                    }
                  ],
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                    "host": [
                      "{{baseUrl}}"
                    ],
                    "path": [
                      "v{{version}}",
                      "purchase_invoices"
                    ],
                    "query": [
                      {
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                        "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
```

```
                    },
                    {
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                      "disabled": true
                    },
                    {
                      "key": "stock",
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                      "disabled": true
                    },
                    {
                      "key": "row_quantity",
                      "value": "as",
                      "disabled": true
                    },
                    {
                      "key": "country",
                      "value": "!EE",
                      "disabled": true
                    },
                    {
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                      "value": "<2025-09-03T00:00:00",
                      "disabled": true
                    },
                    {
                      "key": "date",
                      "value": ">2025-09-01T00:00:00",
                      "disabled": true
                    },
                    {
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                      "value": "223TEST",
                      "disabled": true
                    },
                    {
                      "key": "row_invoicenumber",
                      "value": "500226",
                      "type": "text",
                      "disabled": true
                    }
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                }
              },
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                    "method": "GET",
                    "header": [
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                              "key": "X-Directo-Key",
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scheme: apikey"
                            }
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",
                            "host": [
                              "{{baseUrl}}"
                            ],
                            "path": [
                              "v{{version}}",
                              "purchase_invoices"
                            ],
                            "query": [
                              {
                                "key": "ts",
                                "value": "1949-07-30T08:11:05.129Z"
                              }
                            ]
                          }
                        },
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                        "code": 200,
                        "_postman_previewlanguage": "xml",
                        "header": [
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                            "key": "Content-Type",
                            "value": "application/xml"
                          }
                        ],
                        "cookie": [],
                        "body": ""
                      }
                    ]
                  }
                ]
              },
              {
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                "item": [
                  {
                    "name": "All purchase payments",
```

```
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                    "header": [
                      {
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                        "value": "application/xml"
                      }
                    ],
                    "url": {
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                      "host": [
                        "{{baseUrl}}"
                      ],
                      "path": [
                        "v{{version}}",
                        "purchase_payments"
                      ],
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                          "value": "!1908694",
                          "disabled": true
                        },
                        {
                          "key": "ts",
                          "value": "2025-01-01T08:11:05Z",
                          "disabled": true
                        },
                        {
                          "key": "confirmed",
                          "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": "object",
                          "value": "!EE",
                          "disabled": true
                        },
                        {
                          "key": "project",
```

```
                        "value": "AALTR,AIPM",
                        "disabled": true
                      },
                      {
                        "key": "row_rn",
                        "value": "Maja",
                        "disabled": true
                      },
                      {
                        "key": "row_suppliercode",
                        "value": "9810",
                        "disabled": true
                      },
                      {
                        "key": "row_quantity",
                        "value": "as",
                        "disabled": true
                      },
                      {
                        "key": "row_object",
                        "value": "223TEST",
                        "disabled": true
                      }
                    ]
                  }
                },
                "response": [
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                    "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"
                        }
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"{{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"
                        }
                      ]
                    }
                  },
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                  "code": 200,
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                  "header": [
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                      "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"
                          }
                        ]
                      }
```

```
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                    "code": 200,
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                    "header": [
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                        "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"
                        }
                      ],
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                        "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"
                          }
                        ]
                      }
                    },
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                    "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": [
                        {
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                          "value": "application/xml"
                        },
                        {
                          "key": "X-Directo-Key",
                          "value": "<API Key>",
                          "description": "Added as a part of security
scheme: apikey"
                        }
                      ],
                      "url": {
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                        "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",
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                    {
                      "listen": "test",
                      "script": {
                        "exec": [
                          ""
                        ],
                        "type": "text/javascript",
                        "packages": {},
                        "requests": {}
                      }
                    },
                    {
                      "listen": "prerequest",
                      "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",
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                  },
                  {
                    "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"
                          }
                        ],
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                          "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": [
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                        "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": {
```

```
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                        "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": [
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                "header": [
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                    "key": "Accept",
                    "value": "application/xml"
                  }
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                  "host": [
                    "{{baseUrl}}"
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                  "path": [
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                    "stocklevels"
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                      "disabled": true
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                      "key": "stock",
                      "value": "123TEST",
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scheme: apikey"
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                            "disabled": true
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                            "value": "E101-10",
                            "disabled": true
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                          {
                            "key": "stock",
                            "value": "TL1,TL",
                            "disabled": true
                          }
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                      "{{baseUrl}}"
                    ],
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                      "allocations"
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                    "body": ""
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          }
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              "header": [
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                  "value": "application/xml"
                }
              ],
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                "host": [
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                ],
                "path": [
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                    "value": "",
                    "disabled": true
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                  "header": [
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                              }
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                ]
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                    "request": {
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        "path": [
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            "value": "1011",
            "disabled": true
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          {
            "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
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      }
    },
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      {
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          "header": [
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                            ]
                          }
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                  }
                ]
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                          "disabled": true
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                          "disabled": true
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                          "value": null,
                          "disabled": true
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                    }
                  },
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                      "originalRequest": {
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                        "header": [
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                          },
                          {
```

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                          "path": [
                            "v{{version}}",
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                          ],
                          "query": [
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                              "value": "1949-07-30T08:11:05.129Z"
                            }
                          ]
                        }
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                      "body": ""
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                    "header": [],
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```
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                    ]
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                "response": []
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            ]
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                    "host": [
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                    ],
                    "path": [
                      "v{{version}}",
                      "events"
                    ]
                  }
                },
                "response": []
              }
            ]
          },
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                      "value": "application/xml"
                    }
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            ]
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                    }
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                    ],
                    "path": [
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                        "value": "0",
                        "disabled": true
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                  }
                },
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            ]
          },
          {
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                    "host": [
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                    ],
                    "path": [
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                    ]
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                    }
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                    ],
                    "path": [
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                      "projects"
                    ],
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                      },
                      {
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                        "value": "!1908694",
                        "disabled": true
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                      "value": "Maja",
                      "disabled": true
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                      "disabled": true
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```

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            ]
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                        "type": "text",
                        "disabled": true
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                      {
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                        "value": "Maja",
                        "disabled": true
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            ]
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                    }
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                    ],
                    "path": [
                      "v{{version}}",
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                    ],
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                        "value": "2025-01-01T08:11:05Z",
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```
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                          "disabled": true
                        },
                        {
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                          "value": ">2025-09-01T00:00:00",
                          "disabled": true
                        }
                      ]
                    }
                  },
                  "response": []
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              ]
            },
            {
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              "item": [
                {
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```
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                        "type": "text",
                        "disabled": true
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                        "value": null,
                        "type": "text",
                        "disabled": true
                      }
                    ]
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                },
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            ]
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          {
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              {
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                  "header": [
                    {
                      "key": "Accept",
                      "value": "application/xml"
                    }
                  ],
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                    "host": [
                      "{{baseUrl}}"
                    ],
                    "path": [
                      "v{{version}}",
```

```
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                      "value": "",
                      "type": "text",
                      "disabled": true
                    },
                    {
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                      "value": "xx",
                      "type": "text",
                      "disabled": true
                    },
                    {
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                      "value": "!1",
                      "type": "text",
                      "disabled": true
                    }
                  ]
                }
              },
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            }
          ]
        },
        {
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                      "disabled": true
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          ]
        },
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                    "value": "application/xml"
                  }
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                  ],
                  "path": [
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                  ],
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                      },
                      {
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                      },
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                        "disabled": true
                      },
                      {
                        "key": "suppliercode",
                        "value": "00009",
                        "type": "text",
                        "disabled": true
                      }
                    ]
                  }
                },
                "response": []
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            ]
          },
          {
            "name": "usagelogs",
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              {
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                "request": {
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                  "header": [
                    {
                      "key": "Accept",
                      "value": "application/xml"
                    }
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                  "url": {
                    "raw":
"{{baseUrl}}/v{{version}}/usagelogs?requeststart=>2026-06-01T09:11:05.1
29Z",
                    "host": [
                      "{{baseUrl}}"
                    ],
                    "path": [
                      "v{{version}}",
                      "usagelogs"
```

```
                    ],
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                      {
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                        "disabled": true
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                        "disabled": true
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                        "type": "text",
                        "disabled": true
                      },
                      {
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                        "value": null,
                        "type": "text",
                        "disabled": true
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                      {
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                        "value": null,
                        "type": "text",
                        "disabled": true
                      },
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                        "disabled": true
                      },
                      {
                        "key": "datafield2",
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                        "type": "text",
                        "disabled": true
                      },
                      {
                        "key": "code",
```

```
                        "value": null,
                        "type": "text",
                        "disabled": true
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                  }
                },
                "response": []
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            ]
          },
          {
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            "item": [
              {
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                "request": {
                  "method": "GET",
                  "header": [
                    {
                      "key": "Accept",
                      "value": "application/xml"
                    }
                  ],
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                    "host": [
                      "{{baseUrl}}"
                    ],
                    "path": [
                      "v{{version}}",
                      "expenses"
                    ],
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                    },
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                      "type": "text",
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                      "type": "text",
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                    {
                      "key": "row_suppliercode",
```

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                        "value": "00",
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                    }
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                        "type": "text",
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                        "value": "",
                        "type": "text",
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```

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                    {
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                    {
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                      "value": "",
                      "type": "text",
                      "disabled": true
                    },
                    {
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                      "value": "",
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                      "type": "text",
                      "disabled": true
                    },
                    {
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                      "value": "",
                      "type": "text",
                      "disabled": true
                    },
                    {
                      "key": "externalid",
                      "value": null,
                      "type": "text",
                      "disabled": true
                    }
                  ]
                }
              },
```

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            "response": []
          }
        ]
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      {
        "name": "absences",
        "item": [
          {
            "name": "All absences",
            "request": {
              "method": "GET",
              "header": [
                {
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                  "value": "application/xml"
                }
              ],
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                  "{{baseUrl}}"
                ],
                "path": [
                  "v{{version}}",
                  "absences"
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                    "value": "",
                    "disabled": true
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                  {
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                    "value": "",
                    "disabled": true
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                    "value": "",
                    "disabled": true
                  },
                  {
                    "key": "role",
                    "value": "digiallkiri",
                    "disabled": true
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                      "value": "",
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                    },
                    {
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          ]
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            {
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                "header": [
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                    "key": "Accept",
                    "value": "application/xml"
                  }
                ],
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                          "value": "",
                          "disabled": true
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                          "value": "digiallkiri",
                          "disabled": true
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                        {
```

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                      },
                      {
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                        "value": "",
                        "disabled": true
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                    ]
                  }
                },
                "response": []
              }
            ]
          },
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            "item": [
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                  "header": [
                    {
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                      "value": "application/xml"
                    }
                  ],
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"{{baseUrl}}/v{{version}}/customer_assets",
                    "host": [
                      "{{baseUrl}}"
                    ],
                    "path": [
                      "v{{version}}",
                      "customer_assets"
                    ],
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                      {
```

```
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                        "value": "",
                        "disabled": true
                      },
                      {
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                        "value": "",
                        "disabled": true
                      },
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                        "value": "",
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                      {
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                        "value": "",
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                        "value": "",
                        "disabled": true
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                      {
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                        "value": "",
                        "disabled": true
                      }
                    ]
                  }
                },
                "response": []
              }
            ]
          },
```

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                  "name": "All stocks",
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                    "method": "GET",
                    "header": [
                      {
                        "key": "Accept",
                        "value": "application/xml"
                      }
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                      "host": [
                        "{{baseUrl}}"
                      ],
                      "path": [
                        "v{{version}}",
                        "stocks"
                      ],
                      "query": [
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                          "value": "",
                          "disabled": true
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                          "value": "",
                          "disabled": true
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                          "value": "",
                          "disabled": true
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                          "key": "client",
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                          "disabled": true
                        },
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                          "value": "",
```

```
                        "disabled": true
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                    ]
                  }
                },
                "response": []
              }
            ]
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            "item": [
              {
                "name": "All wage_calculations",
                "request": {
                  "method": "GET",
                  "header": [
                    {
                      "key": "Accept",
                      "value": "application/xml"
                    }
                  ],
                  "url": {
                    "raw":
"{{baseUrl}}/v{{version}}/wage_calculations",
                    "host": [
                      "{{baseUrl}}"
                    ],
                    "path": [
                      "v{{version}}",
                      "wage_calculations"
                    ],
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                        "value": "",
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```

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                        "value": "",
                        "disabled": true
                      },
                      {
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                        "value": "",
                        "disabled": true
                      }
                    ]
                  }
                },
                "response": []
              }
            ]
          },
          {
            "name": "API Direct Discovery in OpenAPI 3.0.1",
            "request": {
              "method": "GET",
              "header": [],
              "url": {
                "raw": "{{baseUrl}}/v{{version}}/openapi.json",
                "host": [
                  "{{baseUrl}}"
                ],
                "path": [
                  "v{{version}}",
                  "openapi.json"
                ]
              }
            },
            "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": [
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      "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.have.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('custome
rId').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('invoiceI
d').or.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.to.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('itemI
d').or.to.have.property('quantity');",
            "                    });",
            "                }",
            "                ",
            "                if (requestName.includes(\"itemclass\")) {",
            "                    pm.test(\"Item classes have required
fields\", function () {",
            "                        const itemClass = responseData[0];",
            "
pm.expect(itemClass).to.have.property('id').or.to.have.property('code')
.or.to.have.property('name');",
            "                    });",
            "                }",
            "                ",
            "                if (requestName.includes(\"priceformula\"))
{",
            "                    pm.test(\"Price formulas have required
fields\", function () {",
            "                        const formula = responseData[0];",
            "
pm.expect(formula).to.have.property('id').or.to.have.property('code').o
r.to.have.property('formula');",
            "                    });",
            "                }",
            "                ",
            "                if (requestName.includes(\"deleted\")) {",
            "                    pm.test(\"Deleted records have required
fields\", function () {",
            "                        const deleted = responseData[0];",
            "
pm.expect(deleted).to.have.property('id').or.to.have.property('deletedI
d').or.to.have.property('type');",
            "                    });",
            "                }",
            "            } else {",
            "                pm.test(\"Empty array response is valid (no
data available)\", function () {",
            "
pm.expect(responseData).to.be.an('array').that.is.empty;",
            "                });",
            "            }",
            "        } else if (typeof responseData === 'object') {",
            "            pm.test(\"Response is a valid object\", function
() {",
            "
```

```
pm.expect(responseData).to.be.an('object');",
          "            });",
          "            ",
          "            // Check if it's an error response",
          "            if (responseData.error || responseData.message)
{",
          "                pm.test(\"Error response contains error
details\", function () {",
          "
pm.expect(responseData).to.have.property('error').or.to.have.property('
message');",
          "                });",
          "            }",
          "        }",
          "    }",
          "    ",
          "    // ============================================",
          "    // 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: Erro 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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