

Rendering from the frontend

Every report configuration in VeloxFactory has a built-in **Generate PDF** function — a dedicated page that lets you render the report directly from the browser, without writing a single line of code or touching the API. It is the fastest way to produce a PDF, test a configuration, or trigger a print job on demand.

The screenshot displays the 'Report Configuration - Overview' page in the VeloxFactory application. The page features a navigation bar at the top with the VeloxFactory logo and various menu items like 'Reports', 'History', 'Print Queue', 'Configuration', 'API Docs', and 'Logs'. Below the navigation bar, there's a search bar and a 'Filter' button. The main content area is titled 'Report Configurations' and contains a table with the following columns: ID, Created, Updated, Preview, Report Name, Description, Context, Meta Data, and Adapter. Three report configurations are listed in the table, each with a preview image, name, description, context, and meta data. A red box highlights the action buttons (Print, Download, Edit) for each row.

| ID | Created | Updated | Preview | Report Name | Description | Context | Meta Data | Adapter |
|----|---------------------|---------------------|---------|----------------------|--|---------|---|----------------|
| 1 | 2026-05-27 19:54:58 | 2026-05-27 19:54:58 | | A5_KanBan | DinA5 KanBan card for operational stock tracking | Article | File Name: A5_KanBan.jrxml Size: 209.90 x 297.04 mm Resources: 1 Parameters: 1 Fields: 6 | [] dyn. array |
| 2 | 2026-05-27 19:54:58 | 2026-05-27 19:54:58 | | A4_Invoice | DinA4 proforma invoice for logistic operations | Invoice | File Name: A4_Invoice.jrxml Size: 209.90 x 297.04 mm Resources: 1 Parameters: 6 Fields: 6 | [] dyn. array |
| 3 | 2026-05-27 19:54:59 | 2026-05-27 19:54:59 | | 65x38mm_ArticleLabel | 65x38mm Article label with company icon for inbound label printing | Article | File Name: 65x38mm_ArticleLabel.jrxml Size: 64.91 x 37.75 mm Resources: 1 Parameters: 6 Fields: 0 | [] dyn. array |

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Report Configuration - Generate PDF

Report Name: 65x38mm_ArticleLabel Data Adapter: dyn.Array

Description: 65x38mm Article label with company icon for inbound label printing

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Resources

Report Parameters

Empty parameters are not transferred.
SQL adapters may use parameters for fetching detail data.

| P_ARTICLE_NUMBER | P_ARTICLE_DESCRIPTION | P_ARTICLE_BATCH | P_INBOUND_DATE | P_ARTICLE_BARCODE | P_ARTICLE_SUPPLIER |
|------------------|-----------------------------------|-----------------|----------------|-------------------|--------------------|
| 5698721 | Hex nut screw, M8x45, 8.8 - black | B5687547/26 | 2026-05-27 | 698765432154 | Screw Press Co. |

Opening the Generate PDF Page

There are two ways to reach the Generate PDF page. From the report configuration list, each report card has a dedicated **Generate PDF** button — clicking it takes you directly to the render page without having to open the report first. Alternatively, open any report configuration and navigate to **Generate PDF** from within the report view.

The page shows two read-only fields at the top — the report name and the active data adapter — so you always know at a glance which report you are working with and where its data comes from.

The data adapter field displays either the name of the assigned `ReportConnectionConfig` (including driver and database) or **dyn. Array** if no SQL connection is configured. This directly influences what input sections appear further down the page.

Report Parameters

If the report defines parameters, a parameter input table is shown. Each parameter gets its own typed input field — the input type is derived automatically from the Java class declared in the `.jrxml`:

- A `java.lang.String` parameter becomes a text field.
- A `java.sql.Date` parameter becomes a date picker.
- A `java.lang.Integer` parameter becomes a number input with integer constraints.
- A `java.lang.Boolean` parameter becomes a toggle switch.
- And so on for all supported types.

Parameters marked as **required** in the report configuration must be filled in before the form can be submitted. Optional parameters can be left empty — VeloxFactory silently drops empty parameter values and does not include them in the render request.

Report Lines — Manual Data Entry

The **Report Lines** section only appears when the report has **no SQL connection assigned** — i.e. when the data adapter is `dyn. Array`. In this case, VeloxFactory has no database to query, so the detail band data must be entered manually in the browser.

The section shows a table with one column per field defined in the report. Each cell contains a typed input matching the field's data type. You fill in one row of values per data record you want to appear in the report.

To add more rows, use the **Add Row** button — it clones the input row and appends a new empty one. Individual rows (except the first) can be removed with the delete button on the right. Empty fields are not transferred to the render request.

i When a SQL connection is assigned, the Report Lines section is hidden. VeloxFactory fetches the data automatically from the database using the configured query — no manual input needed.

Resources

If the report has image resources, a collapsible **Resources** section is available on the page. It shows a preview thumbnail of each resource file, its parameter name, and its file name. Resources

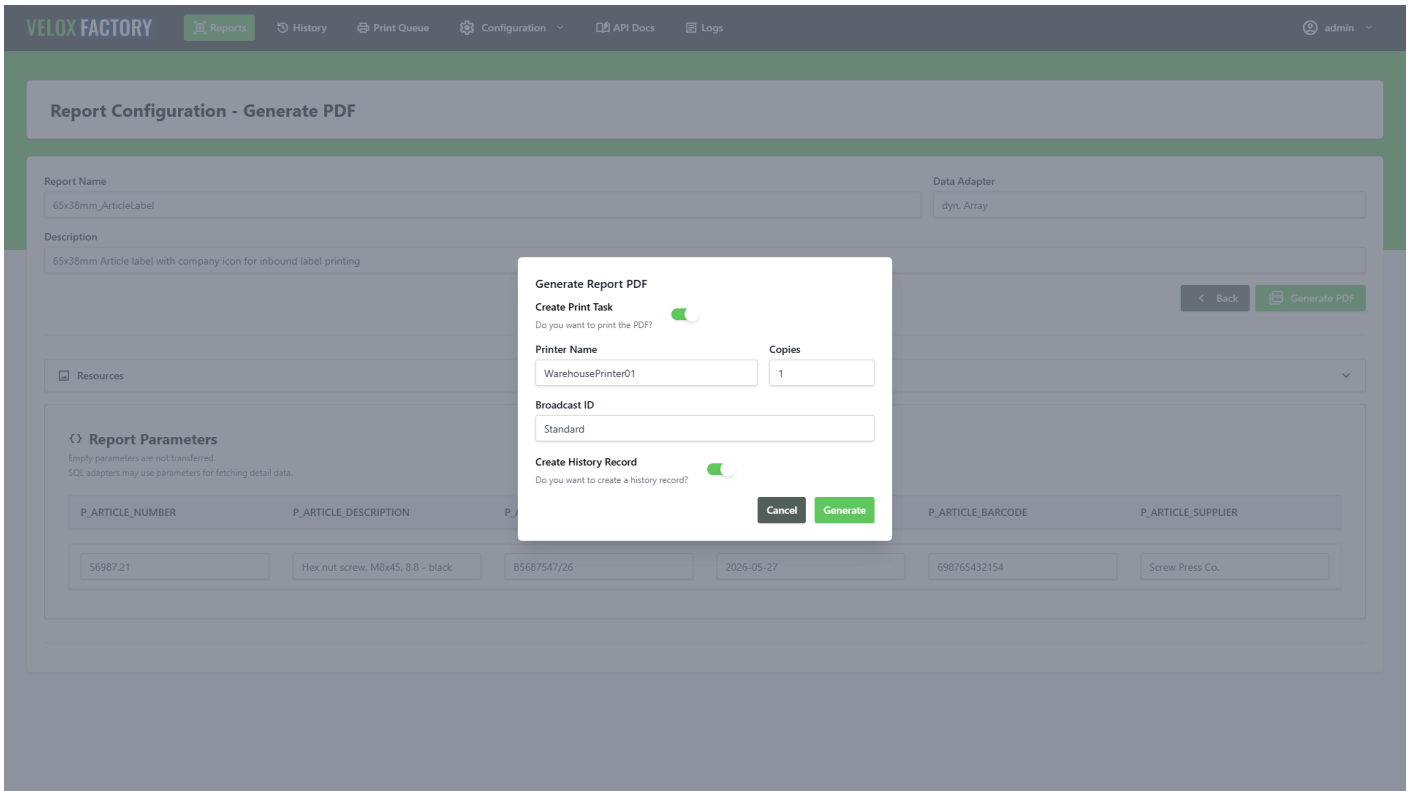
are handled automatically at render time — you do not interact with them during rendering. The section is informational only, confirming which image files are currently assigned.

Generating the PDF

Once parameters and fields are filled in, click **Generate PDF**. A confirmation modal opens with the rendering options:

| Option | Default | Description |
|-----------------------|-----------|--|
| Create History Record | On | Saves a full record of this rendering — request, response, PDF, and thumbnail — to the report history. |
| Create Print Task | Off | Dispatches the rendered PDF to the print service after rendering. Requires a printer name. |
| Printer Name | — | The target printer. Required when Create Print Task is enabled. |
| Copies | 1 | Number of copies passed to the print service. Does not trigger multiple renders. |
| Broadcast ID | — | Optional WebSocket channel ID. If provided, the print service is notified in real time when the print task is created. Leave empty to rely on polling instead. |

Confirm with **Generate** to start the render. The request is processed synchronously — the page waits for the result and displays it immediately.



The Result

Success

On a successful render, the page shows a green confirmation banner and embeds the generated PDF as an inline preview directly in the browser — sized to the report's actual page dimensions. No download required; the document is immediately visible.

If a history record was created, a **View History** button appears — linking directly to the new `ReportHistoryRecord`. If a print task was dispatched, a **View Print Task** button appears as well, linking to the `ReportPrintTask` record where you can monitor its status.

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Report Configuration - Generate PDF

The PDF was generated successfully!
PDF generated successfully!

Report Name: 65x38mm_ArticleLabel | Data Adapter: dyn.Array

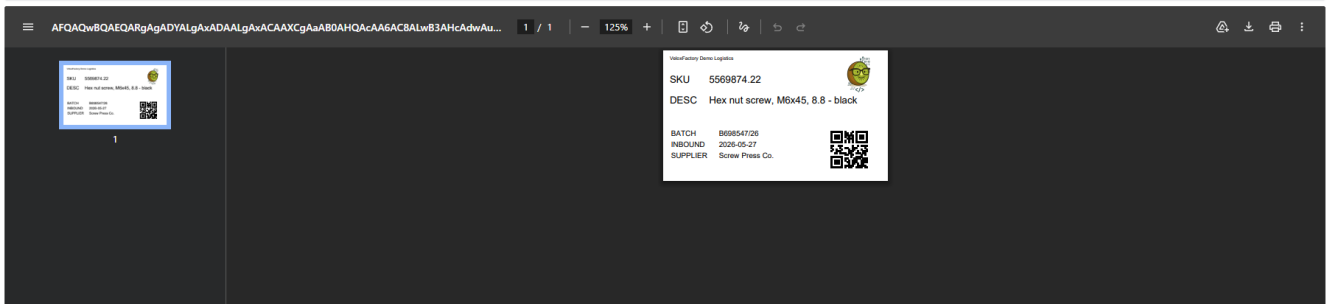
Description: 65x38mm Article label with company icon for inbound label printing

Buttons: Back | Generate PDF

PDF generated successfully!
You can now download the document from the preview and inspect the history or print task.

View History

Generated PDF



Errors

If the render fails, the page shows a red error banner listing all error messages returned by VeloxFactory. Common causes are missing required parameters, a SQL query that returns no data for a report that expects some, or a resource file that was removed after the configuration was last saved.

If a history record was created before the error occurred, the **View History** button still appears — the failed attempt is recorded, including the error details, which is useful for diagnosing what went wrong.

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