

Subreports

🌐 Language: [Deutsch](#) · [English](#)

🔧 Subreports

Display dependent records in a report – upload subreports, embed them via a parameter and feed them with data sources.

HOW-TO

APPLICATION DEVELOPER

UPDATED: JUL 2026

APPLIES TO NUCLOS 4.2026.X

On this page

- [What is a subreport?](#)
- [Uploading a subreport](#)
- [Using it in the report design](#)
- [Data source of the subreport](#)
- [LastPageFooter in a subreport](#)
- [Related pages](#)

What is a subreport?

A subreport displays **dependent records** (e.g. order positions of an order) inside a main report. As JasperReports does not embed subreports, they are stored **separately from the main report**.

Uploading a subreport

In the *subreports* sub-form you upload the subreport file (*.jrxml or *.xml) and specify a **parameter name**. The subreport is passed to the main report via this name.

The screenshot displays the JasperReports Designer interface. The main window shows a report design with a subreport element labeled 'Detail 2'. A 'Data Source Expression' dialog box is open, showing the expression: `((org.nuclos.server.report.api.JRNuclosDataSource)$P(REPORT_DATA_SOURCE)).getDataSource("Formular Lieferscheinpositionen")`. A red arrow points to the text 'Name der Datenquelle' (Name of the data source) above the expression. Below the dialog, the 'Subreport properties' section is visible, showing the 'Subreport Expression' set to `$P(Sub Lieferscheinpositionen)` and the 'Expression Class' set to `net.sf.jasperreports.engine.Ja...`. A red arrow points to the 'Data Source Expression' section, which is highlighted in blue. The 'Data Source Expression' section shows the expression `((org.nuclos.server.report.api.JR...`. The 'Parameters' section shows 'One parameter defined'. The 'Return Values' section shows 'No return values defined'. The 'Report Problems Window' at the bottom shows 'Finished [Lieferschein.jrxml]'.

Subreport assignment with parameter name.

Using it in the report design

In the main report create a parameter with the name given above and type `net.sf.jasperreports.engine.JasperReport`. In the *subreport properties* set:

Property	Value
Subreport Expression	<code>\$P{<parametername>}</code> (e.g. <code>\$P{SUBREPORT_A}</code>)
Expression Class	<code>net.sf.jasperreports.engine.JasperReport</code>
Connection type	Use a datasource expression
Data Source Expression	see code example below

Data source of the subreport

Add a parameter `REPORT_DATA_SOURCE` to the subreport properties with the following expression:

```
((org.nuclos.server.report.api.JRNuclosDataSource)$P{REPORT_DATA_SOURCE}).getDataSource("<Name der Datenquelle in Nuclos>")
```

The subreport must be placed in the **detail band** of the parent report so that connection and context information is passed. Defined data-source parameters (e.g. `int.id`) are filled automatically per main record from its fields.



Testing in the designer

For test compilation in Jaspersoft Studio, add `nuclos-reportapi.jar` (part of the distribution) to the class path.

LastPageFooter in a subreport

If a whole form is used as a subreport: (1) maximise the executing band to page size, (2) set the subreport property **Run to Bottom**. Especially important with the *last page footer*.



Position type

Expansion behaviour: if a subreport is used in the title, page/column header or group header/footer, the property **position type = float** must be set.

For building a sub-sub-report see [Subreport within a subreport](#).

Related pages



Forms

Forms.

[Open](#)



Subreport in the designer

Step by step.

[Open](#)



Subreport within a subreport

Deeper hierarchy.

[Open](#)