How to create a transformation in SAP BW

This guide shows you how to create a transformation in SAP BW from a DataSource in the SAP BW Modeling interface. You create the transformation, map source fields to InfoObject target fields, define a direct assignment rule, and check that the rules contain no errors. The example uses the "Material Id" DataSource (Z_MAT).

Prerequisites

Before you begin, make sure you have the following:

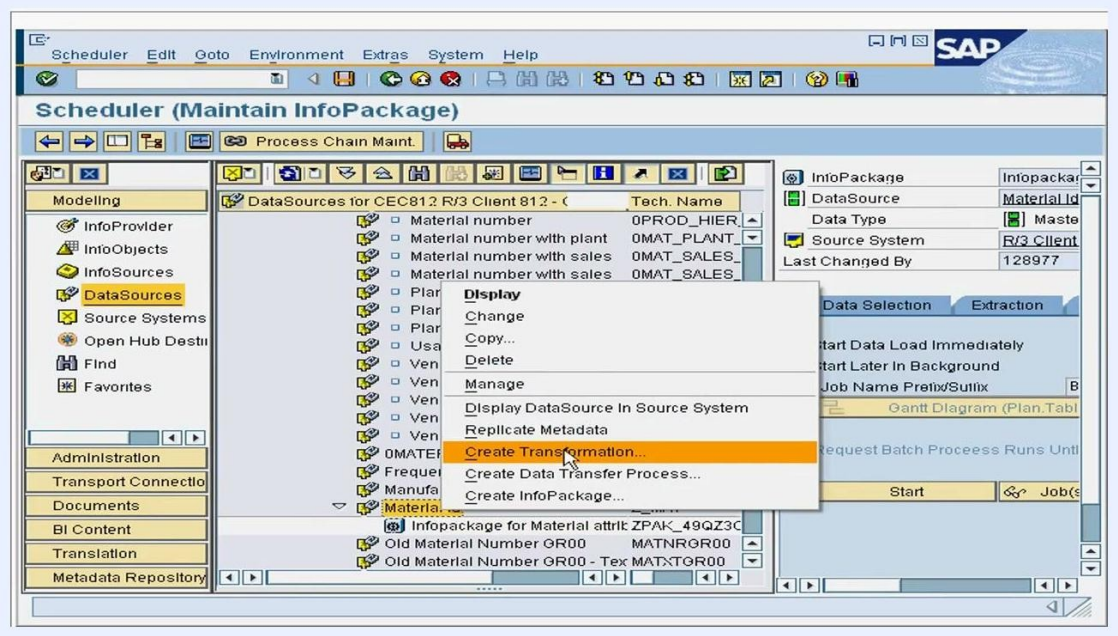
- Access to the SAP BW Modeling interface, with the DataSources tree visible.
- A DataSource named "Material Id" (Z_MAT) in the source system CEC812.
- An InfoObject name for the target. This example uses Z_Mat.

Steps

1. Start creating a transformation from the DataSource

In the DataSources list, right-click the DataSource labeled "Material Id". A context menu opens with these options: Display, Change, Copy, Delete, Manage, Display DataSource In Source System, Replicate Metadata, Create Transformation, Create Data Transfer Process, and Create InfoPackage.

Select **Create Transformation**.



The context menu open on the "Material Id" DataSource with Create Transformation highlighted

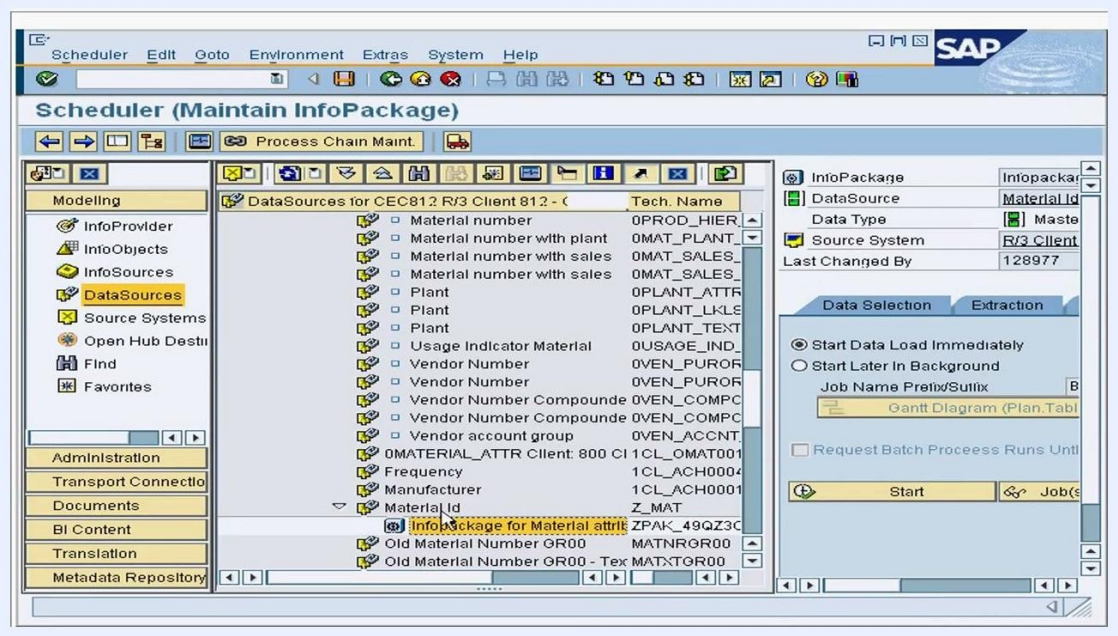
2. Configure the transformation target and source

The **Create Transformation** dialog opens. Under **Target of the Transformation**, set **Object Type** to "InfoObject" from the dropdown.

Under **Source of the Transformation**, set the following values:

- **Object Type:** DataSource
- **DataSource:** Z_MAT

- **Source System:** CEC812



The Create Transformation dialog with Object Type set to InfoObject and DataSource set to Z_MAT

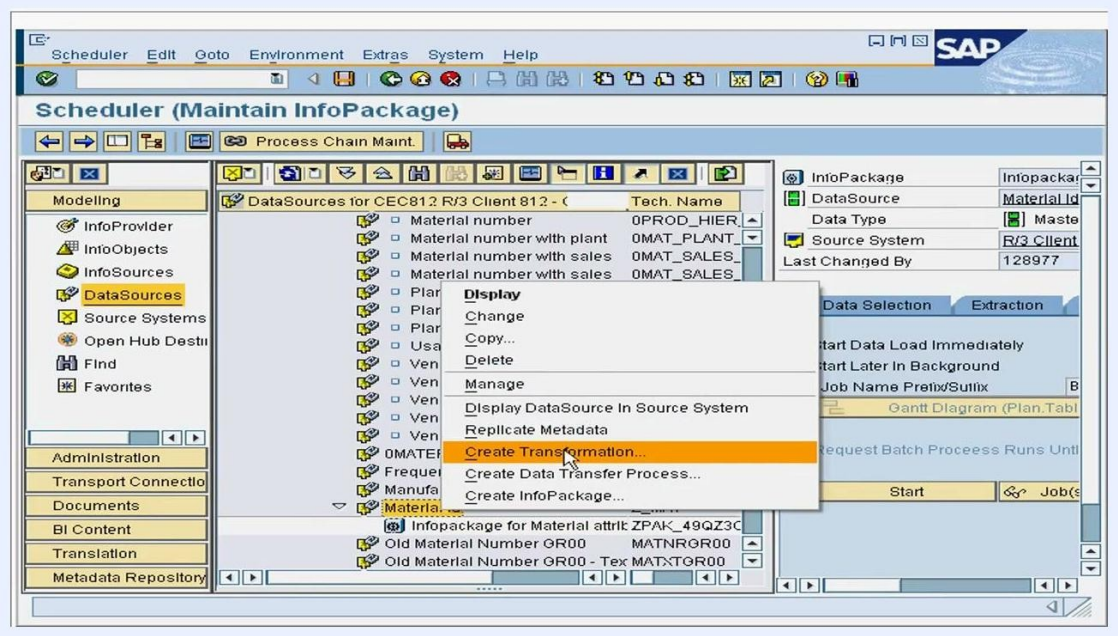
3. Specify the InfoObject name

In the same dialog, enter "Z_Mat" as the **Name** of the target InfoObject. If the **Subtype of Object** field applies, make sure it is set to "Attributes".

Confirm that all fields match this configuration:

- Target: InfoObject, Name: Z_Mat

- Source: DataSource, DataSource: Z_MAT, Source System: CEC812



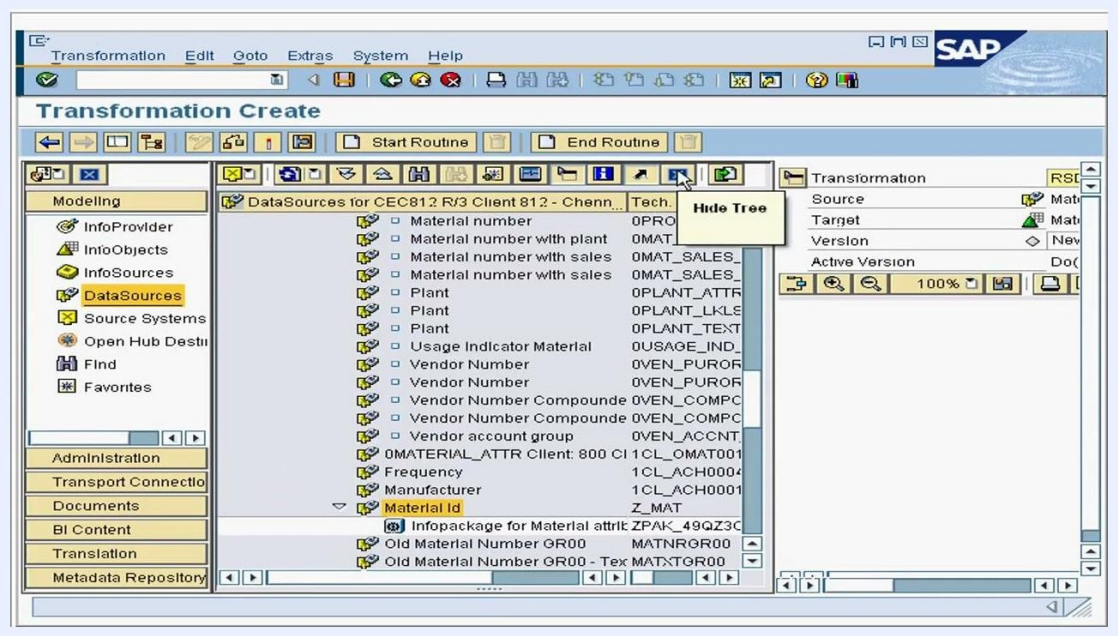
The Create Transformation dialog with the InfoObject name Z_Mat entered

4. Map source fields to target fields

In the "Material Id (Z_MAT)" table, select the fields you want to map:

- MATNR (Material)
- MTART (Material type)
- MBRSH (Industry sector)
- MATKL (Material group)

A tooltip reads "Map the source fields to Target fields". On the right, the "Rule Group: Standard Group" table lists the mapping rules.



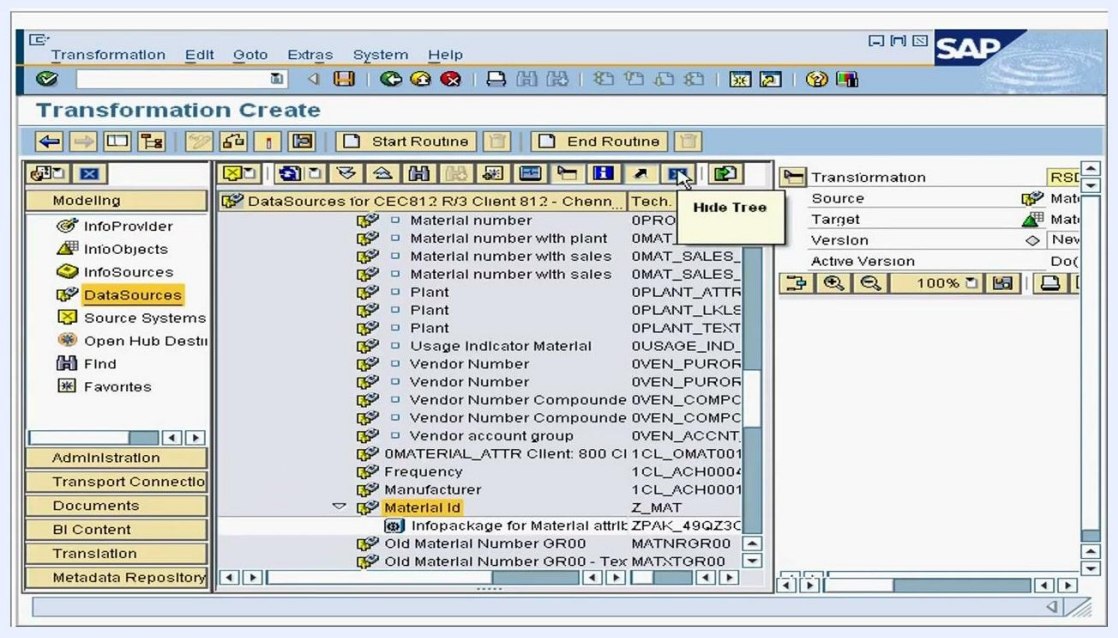
Source fields being mapped to target fields, with the tooltip "Map the source fields to Target fields"

5. Review the field mapping

Make sure all required fields are mapped:

- MATNR → Z_MAT
- MATKL → 0MATL_GROUP
- MTART → 0MATL_TYPE

Mapping lines connect each source field to its corresponding target field.



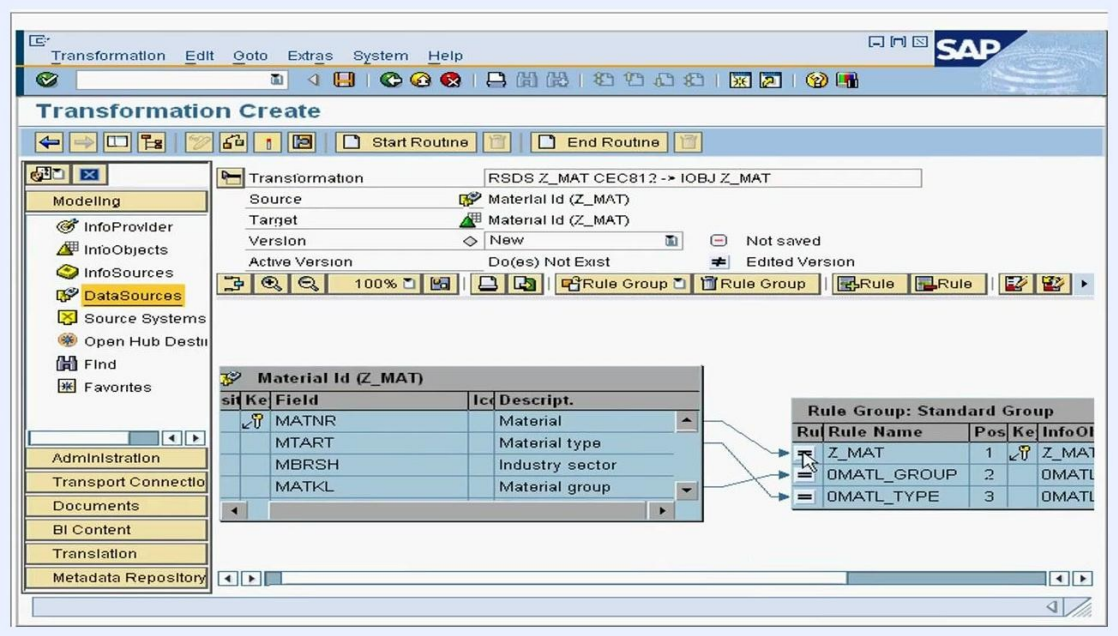
Mapped fields between source and target, with connection lines in the Transformation Create screen

6. Open the rule details for the field mapping

In the **Transformation Create** screen, click the rule entry for the field mapping (for example, Z_MAT) in the "Rule Group: Standard Group" table. The **Rule Details** dialog opens and shows the following:

- **Description:** Material
- **Target InfoObject:** Z_MAT (Material Id)
- **Rule Type:** Direct Assignment
- **Source Fields of Rule:** MATNR (Material), type CHAR, length 18
- **Target Fields of Rule:** Z_MAT (Material Id), type CHAR, length 18, conversion routine MATN1

No values have been transferred yet. A tooltip prompts you to enter the InfoObject name and then transfer the values.

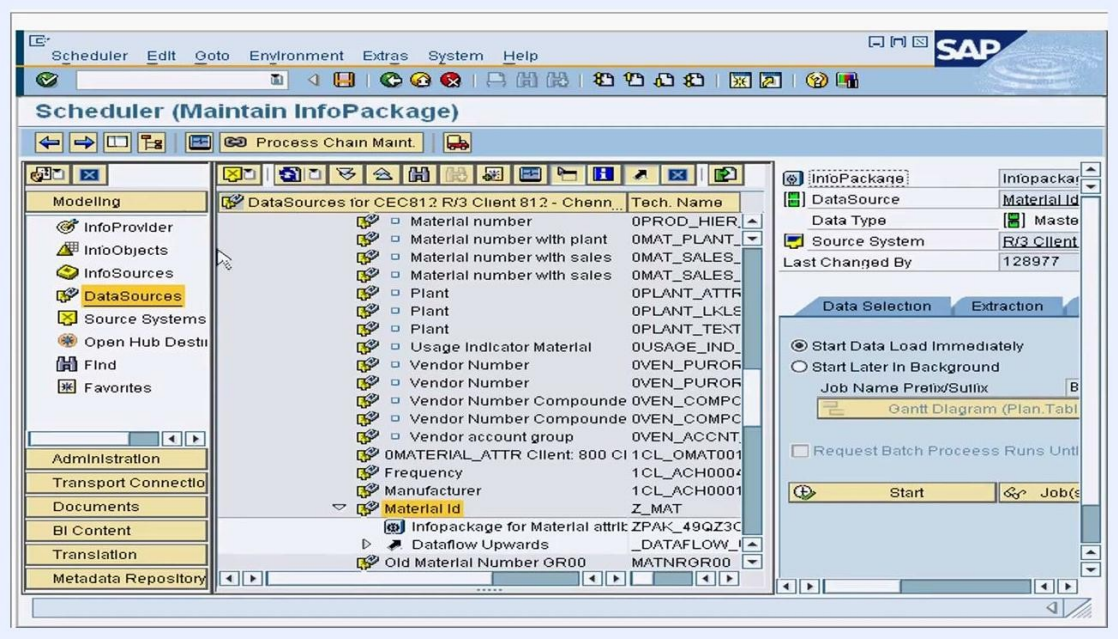


The Rule Details dialog for mapping MATNR to Z_MAT, showing the source and target fields

7. Transfer values from source to target

In the **Rule Details** dialog, make sure the InfoObject name (Z_MAT) is entered in the target field. Then click **Transfer Values** at the bottom of the dialog.

The mapping updates. The IOAssignment column for MATNR now shows Z_MAT, and the Long Description for the target field is "Material Id". This finalizes the direct assignment mapping for the rule.



The Transfer Values button clicked in the Rule Details dialog, mapping MATNR to Z_MAT

8. Return to the overview and validate the transformation

After you transfer the values, the screen returns to the **Transformation Create** overview. Mapping lines connect the source fields (MATNR, MTART, MBRSH, MATKL) to the target fields (Z_MAT, 0MATL_GROUP, 0MATL_TYPE).

The "Rule Group: Standard Group" table now lists these entries:

- Rule Name: Material, 0MATL_GROUP, 0MATL_TYPE
- InfoObjects: Z_MAT, 0MATL_GROUP, 0MATL_TYPE

A status message at the bottom confirms **"No errors found during rule check"**. This means the transformation rules are correctly defined and validated.

Summary

You now know how to create a transformation in SAP BW. You started from the "Material Id" DataSource and set the InfoObject target and the DataSource source. Then you mapped MATNR, MATKL, and MTART to their

target fields, defined a Direct Assignment rule, and transferred the values. The final rule check reported no errors.