

Calculated attribute (data source)

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

Calculated attribute (data source)

Calculated attribute via a data source – with context variables and dynamic background colour for the web client.

HOW-TO

APPLICATION DEVELOPER

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APPLIES TO NUCLOS 4.2026.X

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What is a calculated attribute (data source)?

A calculated attribute is a single return value of a database query that is linked to a field in the [business object](#) and shown at runtime – without any user action.

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Advantage

Compared to functions in [database objects](#), data-source-based attributes offer extra context variables such as \$username and \$mandator (the latter must be bracketed: ('\$mandator')).

Structure

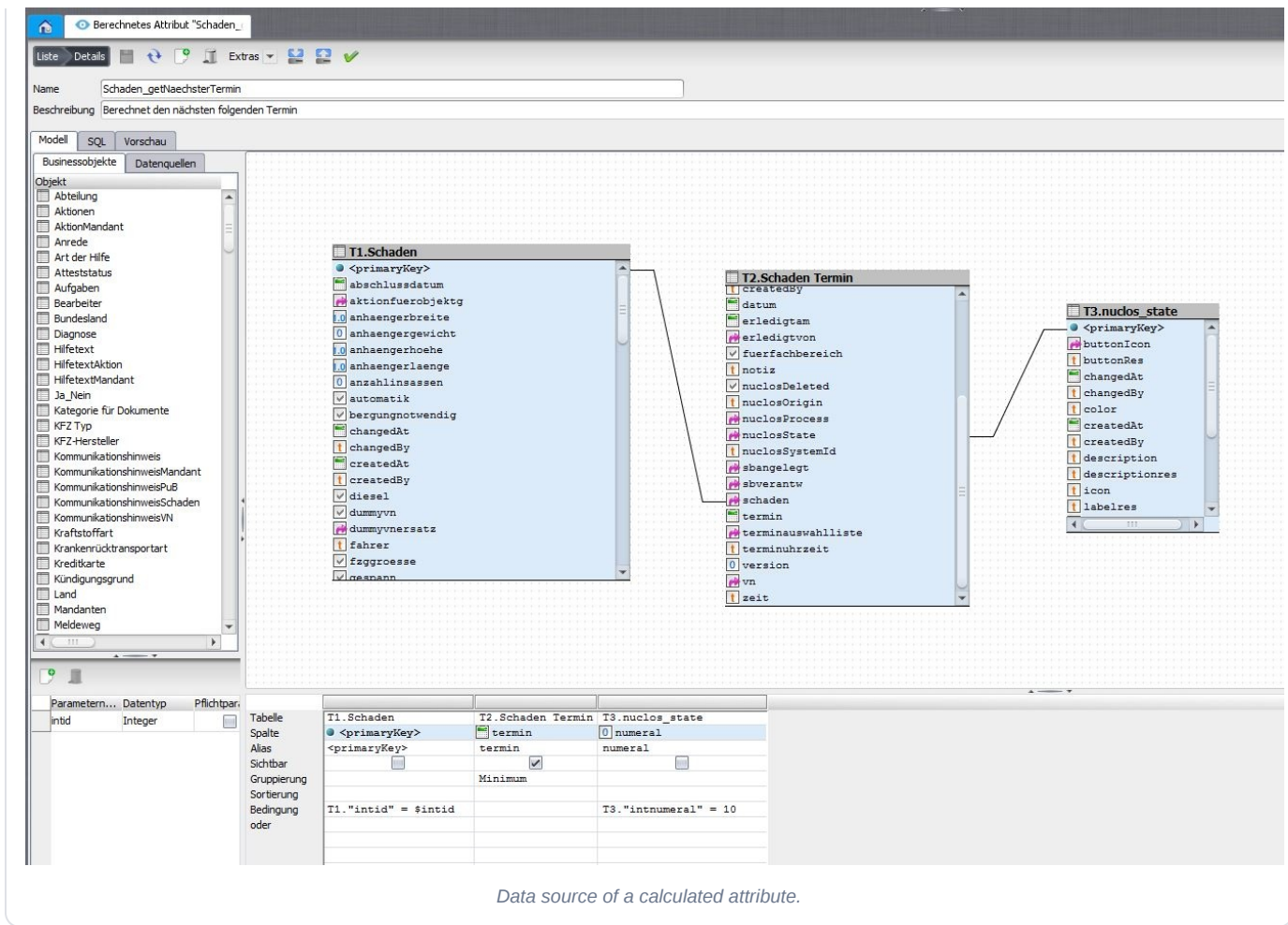
The data source needs a parameter for the **INTID** of the record where the attribute is shown. The return value must match the value to display; the same data type is chosen when linking it in the business object.



Caution

Do not use t as a table alias in the data source – it is already used by Nuclos and leads to wrong results. Reference fields cannot be calculated.

Businessobjekt



Data source of a calculated attribute.

Dynamic background colour (from Nuclos 4.2024.5)

Since [Groovy scripts](#) are not evaluated in the web client, a data source of type *calculated attribute* can return a component's background colour as a hex-encoded string (e.g. #00ff00). Available parameters include: `intid`, `strfield`, `struidfield`, `fieldvalue` (SQL snippet, whitelist `attributeColor` SQLWhitelist), `username`, `mandator`.

```
select
  pm.strvalue
from
  t_md_nucletparameter
  inner join t_md_mandator_param_value pm on t_md_nucletparameter.struid
where
  pm.struid_t_md_nuclet_param where strparameter = 'Nucletparameter x'
  and pm.struid_t_md_mandator = ('$mandator')
```



Hierarchy

Priority rich client: Groovy > data source > `nuclosrowcolor` > static layout colour. Web client: data source > `nuclosrowcolor` > static layout colour.

Related pages



Calculated attributes

Concept & DB path.

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Database objects

DB functions.

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