

Generic implementation

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

💡 Generic implementation

One rule for many business objects: abstract commonalities in generic business objects instead of instanceof chains.

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UPDATED: JUL 2026

APPLIES TO NUCLOS 4.2026.X

On this page

- [Why a generic implementation?](#)
- [Configuration](#)
- [Terms](#)
- [Aspects](#)
- [Related pages](#)

Why a generic implementation?

The generic implementation enables **rules that apply to several business objects alike** – e.g. sequential numbers or net/gross totals for quote, order, delivery note and invoice. Instead of instanceof chains you abstract commonalities in a **generic business object (GBO)**.



Before: without GBO

Previously each type had to be checked individually in a rule:

```
final Modifiable<?> bo = context.getBusinessObject(Modifiable.class);
if (bo instanceof Geschaeftpartner) { ... }
else if (bo instanceof Angebot)      { ... }
else if (bo instanceof Auftrag)      { ... }
```

Menu: [Configuration](#) [Rule sets](#) [Generic implementation](#)

Configuration

A BO marked as **generic** (checkbox in the BO wizard) is required. Then the mapping is maintained:

- **Generic business object** – the BO defined as GBO.
- **Implementing business object** – the concrete BO.
- **Attributes** – mapping GBO BO. Mandatory GBO attributes must be mapped (the BO attribute itself need not be mandatory).



Terms

Term	Meaning
GenericBusinessobject (GBO)	abstracts commonalities of several BOs
Wrapper class	generated class mapping GBO attributes to a BO
Implementing BO	concrete BO mapped to a GBO
Generic rule	rule that works with GBOs

Aspects

- A GBO can be mapped to any number of BOs and vice versa; mappings belong to the same Nuclet.
- Access in the rule context via `getGenericBusinessObject(GBOClass)`; GBOs may have reference fields to other GBOs.
- GBOs are only supported by parts of the API (no `QueryProvider/StatemodelProvider`).
- Generic rules are attached **manually** to an implementing BO; if the context BO type does not match, a runtime error occurs.

Related pages

Server-side rules

Server rules.

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Business object

Mark as GBO.

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