

# Supporting classes

Language: [Deutsch](#) · [English](#)

## Supporting classes

Overview of the provider and helper classes of the Nuclos rule API.

KONZEPT

DEVELOPER

UPDATED: JUL 2026

APPLIES TO NUCLOS 4.2026.X

### Supporting classes of the rule API

For clear rule programming, the Nuclos API provides several **provider and helper classes**. Within a rule, Nuclos data is available as **business objects** – generated Java classes whose attributes match the business object's fields (e.g. „order“ becomes the class `Order`).

 **API documentation**  
Full API reference: [api.nuclos.de](https://api.nuclos.de).

### Providers at a glance

| Class                                  | Purpose                        |
|----------------------------------------|--------------------------------|
| <a href="#">QueryProvider</a>          | Query data in a typed way.     |
| <a href="#">BusinessObjectProvider</a> | Create/update/delete BOs.      |
| <a href="#">DatasourceProvider</a>     | Run data sources.              |
| <a href="#">GenerationProvider</a>     | Run generation steps.          |
| <a href="#">PrintoutProvider</a>       | Create forms.                  |
| <a href="#">ReportProvider</a>         | Create reports.                |
| <a href="#">MailProvider</a>           | Send/receive e-mails.          |
| <a href="#">FileProvider</a>           | Print/save files.              |
| <a href="#">ImportProvider</a>         | Run data imports.              |
| <a href="#">ParameterProvider</a>      | Read system/nuclet parameters. |
| <a href="#">StatemodelProvider</a>     | Trigger state changes.         |

### Related pages

 **Server-side rules**  
Rules.  
[Open](#)

 **QueryProvider**  
Load data.  
[Open](#)

 **BusinessObjectProvider**  
Write BOs.  
[Open](#)