

IBAN validation

Language: [Deutsch](#) · [English](#)

IBAN validation

IBAN validation – part of the IBAN validation Nuclet documentation (structural and checksum validation of IBANs).

HOW-TO

INTEGRATORS

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APPLIES TO NUCLOS 4.2026.X

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Machine-translated – under review

This page was machine-translated from German as a first draft and is currently under review. The authoritative source remains the **German original** (see the language switch above).

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The Nuclet provides methods and rules for validating IBANs.

The following is checked:

- the structure (length, permitted characters and substructures)
- checksum (it is a valid IBAN)

Release

Version	Changes
2.6	• available as a standalone Nuclet (previously only as part of the SEPA Nuclet) • integration via generic implementation • case insensitive country code validation • New method: IBAN formatting

Integration

1. Import of the IBAN registry

First, the definitions for the IBAN validation (IBAN registry) must be imported.

This is done via an [CSV-Import](#):

- under the menu item *Configuration Import & Export Object import* create a new record
- the structure definition *IBAN Registry* use
- the file [IBAN_Registry_DE.csv](#) store

- assign a name for the import process (e.g. "Import IBANRegistry")
- save the record and press the button *Importieren* in the toolbar

The screenshot shows the SAP Import Wizard interface. The top toolbar includes buttons for 'Liste', 'Details', 'Extras', 'Importieren', and 'Import abbrechen'. The 'Einstellungen' (Settings) section contains the following fields:

- Beschreibung:** Import IBAN-Registry
- Importmodus:** Standardimport
- Datei:** IBAN_Registry.csv
- Transaktion:** (empty)

The 'Status' section shows the progress of the import:

- Fortschritt:** A progress bar is filled, with the text 'Import wurde fertiggestellt' (Import completed).
- Status:** A green circle indicates success, with the text 'IBAN_Registry.log'.
- Ergebnis:** Ergebnis für Businessobjekt IBAN Registry: 35 erstellt; 0 aktualisiert; 0 gelöscht.

The 'Strukturdefinitionen' (Structure Definitions) section shows a table with the following data:

CSV Strukturdefinition	Reihenfolge
IBAN Registry	1

The screenshot shows the SAP Import Wizard interface. The top toolbar includes buttons for 'Liste', 'Details', 'Extras', 'Importieren', and 'Import abbrechen'. The 'Einstellungen' (Settings) section contains the following fields:

- Beschreibung:** Import IBAN-Registry
- Importmodus:** Standardimport
- Datei:** IBAN_Registry.csv
- Transaktion:** (empty)

The 'Status' section shows the progress of the import:

- Fortschritt:** A progress bar is empty, with the text 'Import läuft nicht' (Import not running).
- Status:** A grey circle indicates failure.
- Ergebnis:** (empty)

The 'Strukturdefinitionen' (Structure Definitions) section shows a table with the following data:

CSV Strukturdefinition	Reihenfolge
IBAN Registry	1

Creating the CSV import (left) and successful import (right).

2. Usage

There are two ways to use the IBAN validation:

a) Call validation methods in your own Java classes

For this, the corresponding methods in the class `org.nuclet.iban.IBANValidator` can be called.

A complete validation is performed by calling the method

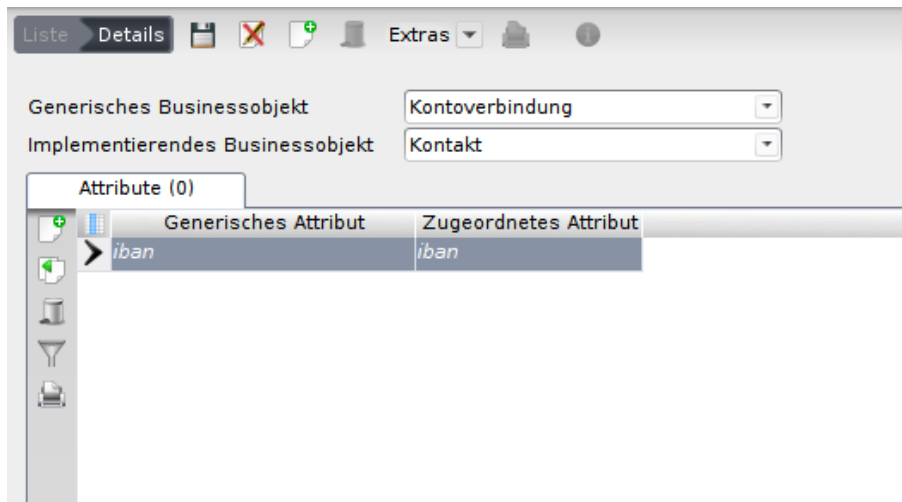
```
public static boolean validateIban(RuleContext context, String iban)
```

which on success `true` returns and otherwise throws an `IBANValidationException` (inherits from `BusinessException`).

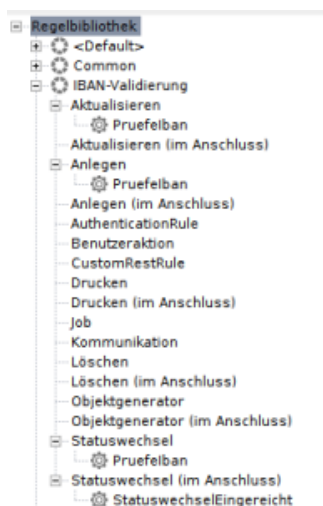
b) Use generic implementation

An already existing business object with a validatable IBAN field can be configured as an implementation of the [generischen Businessobjekts Kontoverbindung](#) from the IBAN Nuclet as follows:

- under the menu item *Configuration Rule sets Generic implementation* create a new record
- as *generic business object* the BO *Kontoverbindung* select
- as *Implementing business object* select the desired existing BO with an IBAN field
- in the subform *Attribute* create a new entry
 - as *Generic attribute* select "iban"
 - as *Assigned attribute* select the field that should contain the IBAN to be validated
- save the record



Now, in the [Server rule manager](#) the rule "PruefeIBAN" must be assigned to the implementing business object as an insert, update and/or state-change rule.



3. IBAN formatting

In the class `IbanValidator` the function exists

```
public static String formatiereIBAN(RuleContext context, String iban) throws BusinessException
```

which first validates the IBAN and then, if successful, returns it formatted according to the standard [DIN 5008](#) .

A rule ("PruefeUndFormatiereIBAN") is also available for this in the Server rule manager.

4. IBAN formatting

The supported country formats can be (de)activated separately in the IBAN registry.

If the validation is deactivated, the validation fails for IBANs with the corresponding country prefix.

By default, all supported formats are also activated

IBAN-Registrierung

Land: Frankreich

ISO-4217-Code: FR

IBAN-Format: FR2!n5!n5!n11!c2

IBAN-Länge: 27

Beispiel (druck): FR14 2004 1010 0505 0001 3M02 606

Beispiel (elektronisch): FR1420041010050500013M02606

Validierung? ☒

Supported formats

The IBAN validation supports the following country codes:

AT	Austria
BE	Belgium
BG	Bulgaria
CY	Cyprus
CZ	Czech Republic
DK	Denmark
FO	Denmark
GL	Denmark
EE	Estonia
FI	Finland
FR	France
DE	Germany
GI	Gibraltar
GR	Greece
HU	Hungary
IS	Iceland
IE	Ireland
IT	Italy
LV	Latvia

LI	Liechtenstein (Principality)
LT	Lithuania
LU	Luxembourg
MT	Malta
MC	Monaco
NL	Netherlands
NO	Norway
PL	Poland
PT	Portugal
RO	Romania
SK	Slovak Republic
SI	Slovenia
ES	Spain
SE	Sweden
CH	Switzerland
GB	United Kingdom

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