



BOI FreeDa :::::::
Free Your Database

→ **SECURE MAINTENANCE
OF CATALOG DATA IN
THE HOSPITAL INFORMATION SYSTEM**

Use Case

BOI BETTER
ORGANIZED
INFORMATION

BOI Software Entwicklung und Vertrieb GmbH
Over 45 years of success and innovation.
Your expert for table management.

We develop innovative software solutions
for audit-proof data maintenance and high-
performance data access to better organize
the management of your critical data.

USE CASE

Secure maintenance of catalog data in the hospital information system



Challenge

Hospitals rely on hospital information systems (KIS) to digitize their processes. While these systems cover standard processes comprehensively, many individual processes must be mapped using master, control, reference, and parameter data – either individual tables or complex, interdependent table packages.

These catalogs are maintained by nursing professionals, most of whom lack technical knowledge. Since KIS does not include suitable, user-friendly, and auditable maintenance interfaces for catalogs, two unattractive alternatives arise:

- ① Time-consuming customization of the KIS for each process
- ② Development of individual tools outside the KIS

For cost reasons, many institutions resort to a third, but error-prone option: data maintenance via MS Excel or MS Access, with manual transfer – without central data storage, logging, and audit compliance.



Goals

- ➔ Introduction of standard software for audit-proof data maintenance of all catalogs outside the KIS
- ➔ Intuitive use by the individual departments of the hospitals, including complex, interdependent catalogs
- ➔ Avoidance of individual editing procedures or Excel-based (transitional) solutions
- ➔ Establishment of a single source of truth – traceable, centralized, secure



Solution with BOI FreeDa

BOI FreeDa introduces a central platform on which all catalogs of a hospital or hospital operator can be edited securely and user-friendly — audit-proof, flexible, and without any programming effort.

Central data storage with multi-client capability

All catalog data is managed in one or more relational databases — **BOI FreeDa** acts as a single source of truth. Multi-client structures allow for the parallel maintenance of central and location-specific catalogs within one system.

User-friendly, audit-proof maintenance

Care professionals can edit their catalogs directly via the intuitive **BOI FreeDa** web interface without any database knowledge. Every change is seamlessly logged.

Mapping complex data dependencies

BOI FreeDa also enables the editing of highly networked catalogs through parent-child links — including validations and dependency checks during editing.

Customizable editing processes with verification mechanisms

- ➔ Processes with 2-, 4-, or 6-eyes principle per catalog
- ➔ Individually configurable validation rules for input security

Role system & access control

Only authorized employees can view and edit the catalogs that have been released for them. Access control and authorizations can be defined in great detail.



Benefits for the customer

BOI FreeDa offers a ready-to-use, configurable solution for editing all KIS-catalogs, no matter how individualized, complex, or distributed the requirements are.

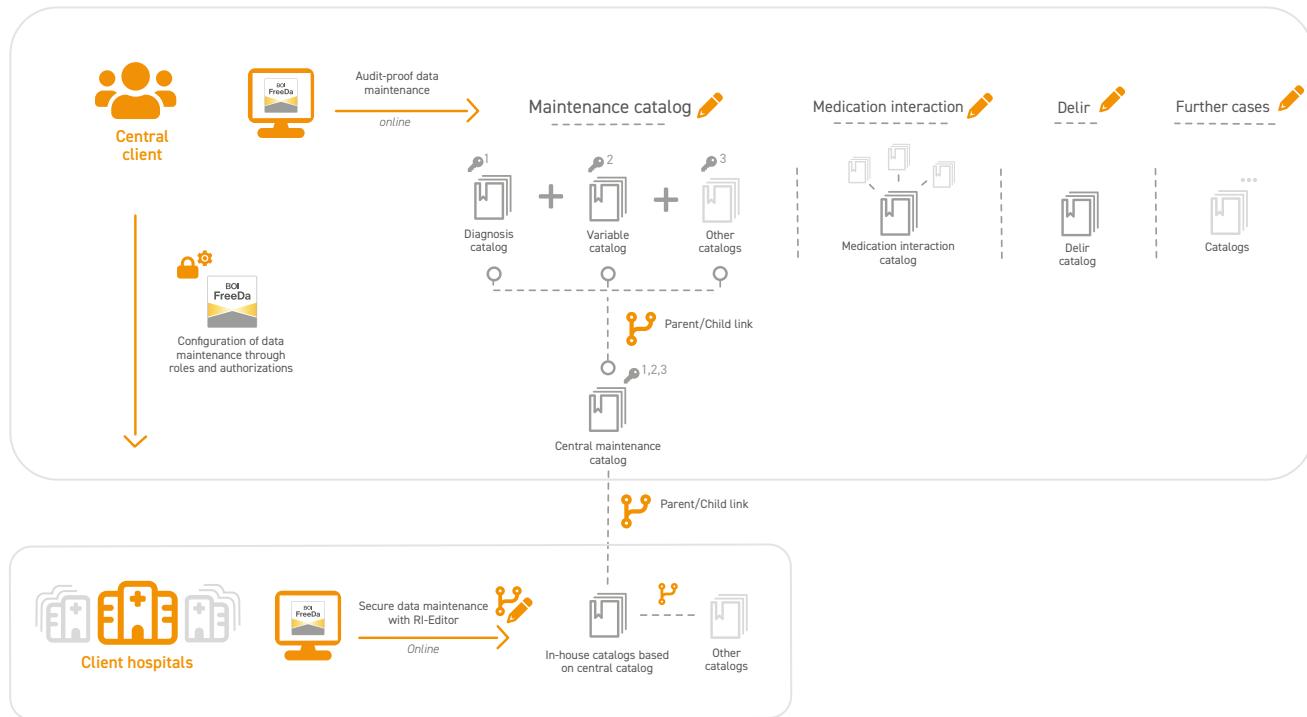
Advantages at a glance

- ➔ Replacement of error-prone MS Excel/Access solutions
- ➔ Avoidance of costly custom developments
- ➔ High data quality through validation rules and logging
- ➔ Efficient maintenance of even complex catalog models
- ➔ Central, audit-proof database for all locations

Practical example

When **BOI FreeDa** was introduced, automatic checks detected 20 incorrect entries in a single KIS-catalog containing 87 lines. Additionally, 19 related entries were missing in referenced help tables — clear evidence of the added value of structured maintenance processes.

The data maintenance process



The process workflow

Maintenance of simple catalogs: The interaction of medications or the delirium potential of medications is edited in one or more tables by several people in a role- and authorization-controlled, audit-proof manner. Roles, authorizations, and table processes are configured centrally by IT.

Maintenance of complex catalogs: The hospital operator is the central client and maintains the data in the various catalogs via **BOI FreeDa**. The care catalog consists of the „Diagnosis“ and „Variables“ catalogs as well as other catalogs. These define all possible diagnoses and their therapies, which make up the central care catalog.

Individual hospitals compile their own internal catalogs based on the central care catalog. Using **BOI FreeDa's** RI Editor, hospitals can only use valid values from the central catalog. The 4-eyes control principle ensures that the hospital operator verifies the accuracy of the changes in the individual in-house catalogs. When changes are made to the central care catalog, all dependent in-house catalogs are changed and editing is required to ensure data consistency across all clients.



For those interested in the technical details

- ➔ Use in the cloud or on-premises
- ➔ Own authentication & role system, optionally integrable via OpenID Connect
- ➔ Connection of any number of tables from different relational databases via JDBC
- ➔ Multi-client capability for mapping different organizational units
- ➔ Assignment of roles, rights, and process types at table, schema, and organizational unit level
- ➔ Data maintenance via the **BOI FreeDa** web interface: intermediate results are stored in **BOI FreeDa** and are only saved to the source database upon activation
- ➔ All processing steps can be automated via the **BOI FreeDa** REST-API and scripting interfaces

Are you interested in BOI FreeDa?

Please feel free to contact us! Our team will advise you individually and answer all your questions about **BOI FreeDa**. Together, we will determine how our solution can best support your company.

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BOI – FOR YOUR BETTER ORGANIZED INFORMATION

→ Convincing Quality

Efficient and audit-proof. High-performance and ultra-fast. Company-wide use for all databases and operating systems.

→ Efficient Service

Over 45 years of experience. Excellent, dedicated team. One-stop consulting, technology and implementation.

BOI - We set an example.

- Our vision is a society in which economic management goes hand in hand with social commitment and ecological action.
- Our mission is to make the best possible contribution to ensuring sustainable development on an economic, social and ecological level.
- We want to operate in a net zero manner from 2026 and are already taking numerous measures to reduce our greenhouse gas emissions.
- We pay attention to the well-being of our employees and take measures to protect their health.
- We consistently donate 10% of our annual profit to social and environmental organizations.



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