



## BOI FreeDa

Audit-proof data management  
for relational databases

[Product overview](#)

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## B0I FreeDa: The excellent solution for audit-proof data management for relational databases

*„Our key accounts held the knowledge about our customers, thus they should be able to maintain data on our internal processes and customer relevant information such as terms, conditions or promotional discounts. Unfortunately, due to their lack of IT knowledge, it is not guaranteed they can do so without risking errors in the database.“*

*„We have established workflows in MS Excel that are cumbersome and error-prone. We urgently need processes that are role- and user-controlled and, above all, audit-proof!“*

Do you face these challenges as well? The operative experts are not database specialists and therefore the audit-proof maintenance of important company data is not guaranteed?

Use the knowledge and expertise of your employees in the operative departments for the maintenance of data in relational databases. B0I FreeDa offers a uniform maintenance and administration interface for data management with state-of-the-art usability and innovative maintenance workflows.

By simply transferring Excel Data into a relation database using B0I FreeDa, you provide employees without any database knowledge the easy access to all relevant data in order to maintain these data security and independently.

### With B0I FreeDa the maintenance of your table data is...

- **user friendly:**  
intuitive and easy maintenance of critical master and control data, optimized for users without database knowledge
- **secure:**  
Effective securing of data maintenance through fine-granular rules, authorizations and verifications
- **verifiable:**  
Audit-proof workflows for data maintenance with complete logging of all data changes

## How does BOI FreeDa stand out?

### BOI FreeDa enables users without database knowledge to maintain critical data

The technical knowledge about your company is in the operating departments but due to the lack of database expertise they can not maintain data themselves. BOI FreeDa offers an intuitive and simple solution for the managed and audit-proof maintenance of data for the most common relational databases. The data maintenance proceeds exclusively in the BOI FreeDa system and the changes are activated once the maintenance process has been completed.

### BOI FreeDa is independent

BOI FreeDa is independent of operating systems and database neutral. Due to that, BOI FreeDa can be used for the table maintenance of diverse databases like Db2, Oracle, Microsoft SQL Server, MySQL, PostgreSQL, Informix and MariaDB. The connection is done via JDBC (Java Database Connectivity). BOI FreeDa uses only SQL statements for data import and export.

### BOI FreeDa frees relational databases

BOI FreeDa offers different standard workflows for audit-proof maintenance: without control, with self-control (2 eyes) or 4- and 6-eyes principle. The maintenance workflows are defined in BOI FreeDa and not in the database. That means that during the data maintenance, all changes are stored exclusively in BOI FreeDa and there is no intervention in the data management, the data model and the productive use in the relational database. The BOI FreeDa data maintenance takes place independently of the database's constraints, but BOI FreeDa ensures that all constraints are strictly observed when activating data changes.

### BOI FreeDa facilitates different maintenance processes

In BOI FreeDa, the administrator defines central aspects of the data maintenance and keeps control which tables are maintained directly or assigned to the 2-, 4- or 6-eyes-principle. BOI FreeDa guides users through the selected maintenance process and ensures that the defined maintenance process is always followed.

### BOI FreeDa guarantees security

With roles and permissions, the administrator defines the rights of the users. This way, only the right persons can read, edit, control or release tables. BOI FreeDa automatically ensures that all changes are database compliant. You can additionally define logical checks for tables, such as parent-child relationships, value ranges, etc.

### BOI FreeDa maintains data individually or in a package

In BOI FreeDa, the administrator can maintain whole tables, partial tables and packages of comprising several different tables according to the requirements of your company. Use - also cross-database - packages to ensure the simultaneous activation of changes of technically related tables.

## BOI FreeDa supports bi-temporal data formats

With BOI FreeDa, bi-temporal data with a validity period can be maintained easily.

## BOI FreeDa replaces the process of unstructured MS Excel data maintenance

Nowadays, data maintenance by the operating department is often carried out using products such as MS Excel. This leads to unstructured, time-consuming and error-prone processes from the export from the database, data maintenance, to the import back into the database. Replace these with the efficient BOI FreeDa maintenance processes.

## BOI FreeDa is compatible with Enterprise Resource Planning Systems

BOI FreeDa can be used together with ERP systems. This allows for instance the realization of maintenance processes outside the ERP system which leads to cost savings as customer specific adaptations of your ERP are no longer needed.

## BOI FreeDa meets individual requirements

You need additional functions which are not included in the standard product?

Our development team implements additional customized functions by BOI FreeDa scripts.

## Data maintenance with BOI FreeDa: TableNAVI

Tabellenname	Schema	Datenbank	Auftragsname	Pflegeprozess	Pflegestatus	Pflegestatus g	Sperre	gesperrt von	MANDANT	INSTANCE
★ Cities	presentable	postgres	Zentralen	⇒	🔒		🔒			
★ Cities-AT	intern	postgres	Zentralen	⇒	🔒		🔒			
★ Cities-DE	intern	postgres	Zentralen	⇒	🔒		🔒			
★ Cities-FR	intern	postgres	Zentralen	⇒	🔒		🔒			
★ Contracts	presentable	postgres	Verträge	⇒	🔒		🔒			
★ Funktionsbere	Administration	postgres	-	⇒	🔒		🔒			
★ Kaufvorräte	Buchhaltung	postgres	-	⇒	🔒		🔒			
★ Kontrollbereich	Administration	postgres	-	⇒	🔒	Admin	🔒			
★ Lohnsteuerabr	Buchhaltung	postgres	Rechnungen	⇒	✓	Tanja Schmied...	🔒			
★ Lohnzahlung	Buchhaltung	postgres	-	⇒	🔒	Tanja Schmied...	🔒			
★ Ortszentralen	intern	postgres	Zentralen	→	🔒		🔒			
★ Ortszentralen	intern	postgres	Zentralen	↳	✓	Peter Ruprecht	🔒			
★ Ortszentralen	intern	postgres	Zentralen	⇒	🔒	Peter Ruprecht	🔒	Peter Ruprecht		
★ Ortszentralen	intern	postgres	Zentralen	↳	✓	Peter Ruprecht	🔒			
★ Spesenabrech	Buchhaltung	postgres	Rechnungen	↳	🔒		🔒			
★ Steuerschlüsse	Administration	postgres	-	→	🔒	Admin	🔒			
★ Steuerabrechnu	Buchhaltung	postgres	-	⇒	🔒	Alois Winter	🔒			
★ Verträge Diens	Verwaltung	postgres	Verträge	⇒	🔒	Renate Eisent...	🔒	Renate Eisent...		
★ Verträge Diens	Verwaltung	postgres	Verträge	⇒	🔒		🔒			
★ Verträge Lizen	Verwaltung	postgres	Verträge	⇒	🔒	Alois Winter	🔒			
★ Verträge Lizen	Verwaltung	postgres	Verträge	→	🔒		🔒			

Figure 1: TableNavi with the clear representation of all tables for which the user is authorized.

## Data maintenance with BOI FreeDa: Table editing

ZellenNr.	KDR_NF!	NACHNAME	VORNAME	VERTRAGSART	VERTRAGSNR	VERTRAGSBEGINN	VERTRAGSENDE	LAUFZEIT	RISIKOGRUPP
40	0050	Freinersdorfer	Annette	Risiko	53	01.01.2012	01.01.2030	30	23
41	0052	Soumeillan	Theodor	Standard	52	25.07.1985	25.07.2015	30	23
42	0053	Walter	Hilde	Ausgleich	67	12.09.2013	12.09.2030	78	23
43	0054	Gassner	Hannelore	KFZ	34	23.05.1998	12.09.20004	34	23
44	0056	Strauss	Peter	Risiko	56	01.01.2000	01.01.2030	30	67
45	0057	Kohlerhauer	Hanelore	Risiko	57	01.01.2000	01.01.2030	30	23
46	0058	Raabner	Rita	Risiko	50	14.01.2000	14.01.2030	67	23
47	0060	Drohaniksky	Theodor	Standard	60	25.07.1985	25.07.2015	30	23
48	0059	Haider	Wilfried	Sport	21	30.12.1999	30.12.2019	79	45
49	0061	Joost	Meuwissen	Sport	56	20.03.2019	20.06.2035	67	12
50	0001	Maria	Koller	Standard	12	09.09.2021	09.09.2055	17	58
51	0062	Effenbwerg	Thomas	Risiko	62	01.06.1972	01.06.2022	50	56
52	0063	Hoopplang	Angelina	Risiko	63	01.01.2000	01.01.2030	30	23
53	0064	Konkalte	Peter	Risiko	64	01.01.2000	01.01.2030	30	67
54	0065	Beckenhauer	Hanelore	Risiko	65	01.01.2000	01.01.2030	30	23
55	0066	Muller	Tilo	Risiko	66	30.03.1985	30.03.2015	30	12
56	0067	Malter	Tristan	Risiko	78	30.03.1988	30.03.2015	30	12
57	0068	Müller	Dieter	Standard	12	04.05.2020	04.05.2045	67	21

Figure 2: Data maintenance in BOI FreeDa

### 1. My favorites

- Table overview
- Table edit
- Favourites
- Permissions
- Notification journal
- Own functions

### 2. Editing bar

- Import & Export
- Show in Excel
- Create Deep Link
- DML export
- Search/Replace
- Table comparison

### 3. Table status in workflow

- Active
- In process
- Waiting for control
- Waits for activation time
- Waits for activation

### 4. Table actions

- Table information
- Table maintenance process
- Table verifications
- Table permissions

### 5. Administration

- User management
- Parameter management
- ControlNavi

### 6. Checks

- Automatic format check
- Table specific check

## Data maintenance with BOI FreeDa: Table comparison

Alter Stand:					Aktueller Stand:				
ZeilenNr.	KDR_NR	NACHNAME	VORNAME	VERTRAGSART	ZeilenNr.	KDR_NR	NACHNAME	VORNAME	VERTRAGSART
45	0052	Soumeillan	Theodor	Standard	45	0052	Soumeillan	Theodor	Standard
46	0053	Koller	Herbert	Standard	46	0053	Walter	Hilde	Ausgleich
47	0054	Schmidt	Thomas	Risiko	47	0054	Gassner	Hannelore	KFZ
48	0056	Strauss	Peter	Risiko	48	0056	Strauss	Peter	Risiko
49	0057	Kohlerhauer	Hanelore	Risiko	49	0057	Kohlerhauer	Hanelore	Risiko
50	[null]	[null]	[null]	[null]	50	0058	Raabner	Rita	Risiko
51	0060	Drohanisky	Theodor	Standard	51	0060	Drohanisky	Theodor	Standard
52	0059	Hottler	Herbert	Risiko	52	0059	Halder	Wilfried	Sport
53	0061	Dechant	Herbert	Standard	53	0061	Joost	Meuwissen	Sport
54	[null]	[null]	[null]	[null]	54	0001	Maria	Koller	Standard
55	0062	Effenbwerg	Thomas	Risiko	55	0062	Effenbwerg	Thomas	Risiko
56	0063	Hoopplang	Angelina	Risiko	56	0063	Hoopplang	Angelina	Risiko
57	0064	Konkalte	Peter	Risiko	57	0064	Konkalte	Peter	Risiko
58	0065	Beckenhauer	Hanelore	Risiko	58	0065	Beckenhauer	Hanelore	Risiko
59	0066	Muller	Tilo	Risiko	59	0066	Muller	Tilo	Risiko
60	0067	Techalke	Herbert	Risiko	60	0067	Malter	Tristan	Risiko

Figure 3: BOI FreeDa table comparison

### Table comparison

- 1. Table before editing
- 2. Reject change
- 3. Table after editing
- 4. Changed values are highlighted

## Data maintenance with BOI FreeDa: Table log

Tabellenprotokolle

postgres.presentable.Contracts

Art des Protokolls:  Pflegeprotokoll  Aktivierungsprotokoll

Zeitraum:  gesamter Zeitraum  Zeitraum definieren

Startdatum → Enddatum

	User	Aktion	Zeitpunkt	Pflegergrund
<input type="checkbox"/>	ADMIN	wartet auf Ko...	2023-04-03_...	
<input checked="" type="checkbox"/>	ADMIN	bearbeitet	2023-04-03_...	Nummer 1102
<input type="checkbox"/>		Neu in BOI Fr...	2022-02-01_...	

Spalten Filter

Figure 4: BOI FreeDa table log

### Table log

- 1. Selection of maintenance or activation protocol
- 2. Display in Excel, compare table states
- 3. Logged Data: user, action, time, maintenance reason
- 4. Filter settings: user, action, time, reason for change

## BOI FreeDa products

BOI FreeDa is available in three editions:

- **BOI FreeDa direct** offers direct maintenance of tables, all changes are immediately activated in the database.
- **BOI FreeDa Table Edition** also offers the option of table maintenance processes, thus separating data storage in the database from data processing for the duration of the entire maintenance process. It also offers table checks and the connection to external systems. Customer-specific functions can be implemented via BOI FreeDa scripts.
- The **BOI FreeDa Workflow Edition** offers additionally the implementation of individual maintenance workflows and support for bi-temporal database formats, multi-client capability and the maintenance of sub-tables and orders.

	 direct	 Table	 Workflow
<b>One interface for the most common RDB</b> <ul style="list-style-type: none"> <li>• Db2, Oracle, Microsoft SQL Server, MySQL, PostgreSQL, Informix and MariaDB via JDBC</li> </ul>	✓	✓	✓
<b>Intuitive table editing</b> <ul style="list-style-type: none"> <li>• Table editor incl. comprehensive maintenance and import/export-functions</li> </ul>	✓	✓	✓
<b>Editing unit</b> <ul style="list-style-type: none"> <li>• Table</li> <li>• Partial table and table packages</li> </ul>	✓	✓	✓ ✓
<b>Editing process</b> <ul style="list-style-type: none"> <li>• NoCheck (direct editing)</li> <li>• SelfCheck, SingleCheck, DoubleCheck</li> <li>• Individual maintenance workflows</li> </ul>	✓	✓ ✓	✓ ✓ ✓
<b>Checks</b> <ul style="list-style-type: none"> <li>• Automatic BOI FreeDa checks</li> <li>• Customized table checks</li> </ul>	✓	✓ ✓	✓ ✓
<b>Connection to customer systems</b> <ul style="list-style-type: none"> <li>• Authorization and authentication (e.g. OpenID connect)</li> </ul>		✓	✓
<b>Data organization</b> <ul style="list-style-type: none"> <li>• Multi-client capability</li> </ul>			✓
<b>Logging</b> <ul style="list-style-type: none"> <li>• Data changes and settings</li> </ul>	✓	✓	✓
<b>Scripting</b> <ul style="list-style-type: none"> <li>• Scripts for BOI FreeDa processes</li> <li>• Customized maintenance scripts</li> <li>• Customized menu functions</li> </ul>	✓	✓ ✓	✓ ✓ ✓
<b>Parent-Child</b> <ul style="list-style-type: none"> <li>• Parent-child connections</li> </ul>			✓
<b>Temporal data formats</b> <ul style="list-style-type: none"> <li>• Support of bi-temporal data formats</li> </ul>			✓
<b>BOI FreeDa Add-Ons</b> <ul style="list-style-type: none"> <li>• BOI FreeDa Staging</li> <li>• BOI FreeDa ERP Connect</li> </ul>		✓ ✓	✓ ✓

## 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 climate-neutral  
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.



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

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