

ile <u>Extras View H</u> elp Exit 🕵 Connect 蹫 Refresh Kara		rrvices 🚳 Show Server Messages 😰 Run Scripts 🌚 Settings 🌚 About	
WIN-4QLVPESNQQQ\BuchiSalo	/n databases 👻 🌚 Se	ervices Show Server M	
NIRSolution		Run Scripts Settings About	
	Database Information	NUDa	BU
	Database Name:	NIRSolution	
	Database Version:	4.5	0
	Database Size [MB]:	1118,563	SQL Scripts
	Database Collation:		
	Compatibility Level	SQL_Latin1_General_CP1_CI_AS Version100	Check
	Database States;		Show Locks
	Date:	Normal, Multiple	Readonly
		Creation Date: 07/16/2013 15:42:46	😔 Rename
	Database Files:	NIRSolution I c:\Program Files\Microsoft SQL Server\MSSQL10_50.BUCHISQLSERVER\MSSQL\DATAWIRSolution.mdf	3 Set Offline
	Database Log Files:	Nin-Solution_Jog I C:\Program Files\Microsoft SQL Server\MSSQL10_50.BUCHISQLSERVER\MSSQL\DATA\NIRSolution_log I DE	Detach
	Additional Infos:	Software Version 1.5.3000	Single Mode
	Recommendation:	Database name and database file names correspond.	😌 Delete
			Backup
			NIRWare specific:
			😵 New
			😨 Upgrade / Setup
			Bestore Modify NIRWare Connectio
1	4		Check Integrity
			Mark as Archive
			Unmark as Archive
			Contract Contract
		[▼	
			(
	4		



Imprint

Product Identification: Operation Manual, Database Manager 1.4 11593644 en

Publication date: 11.2015, Version B

BÜCHI Labortechnik AG Meierseggstrasse 40 Postfach CH-9230 Flawil 1

E-Mail: <u>quality@buchi.com</u>

BUCHI reserves the right to make changes to the manual as deemed necessary in the light of experience; especially in respect to structure, illustrations and technical detail.

This manual is copyright. Information from it may not be reproduced, distributed, or used for competitive purposes, nor made available to third parties. The manufacture of any component with the aid of this manual without prior written agreement is also prohibited.

Table of contents

1	About this manual	3
1.1	Reference documents	3
1.2	Trademarks	3
1.3	Abbreviations	3
2	Introduction	
3	Overview on parts of software	
3.1	Main View	<u>_</u>
3.2	Main Toolbar (1)	
3.3	Server View (3)	
3.4	Functions related to the SQL server (4)	
3.4.1	SQL Scripts.	
3.4.2	Import SQL	
3.4.3	Detail	
3.4.4	Attach	
3.4.5	Restore	
3.4.6	Show Locks	
3.4.7	Add new server (after changing the PC name)	
3.5	Database View (3)	
3.6	General database related functions (4)	
3.6.1	SQL Scripts	
3.6.2	Import SQL	
3.6.3	Check	
3.6.4	Shrink	
3.6.5	Show Locks	
3.6.6	Read-only / Writeable	
3.6.7 3.6.8	Rename Set Offline / Online	
3.6.9		
	Detach	
3.6.10	5	
3.6.11		
3.6.12	I	
3.6.13		
3.7	Logger and info panel (6)	
3.8	About Dialog	
4	Settings	17
4.1	General Options	17
4.2	NIRWare Settings	18
5	Plugin specific functions	18
5.1	Sepacore Control	
5.1.1	New empty database	
5.1.2	Attach	
5.1.3	Restore	
5.1.4	Backup	
5.1.5	Delete System Configuration	
5.2	SepacoreRecord	
5.2.1	New empty database	
5.2.2	Upgrade	
5.2.3	Attach	
5.2.4	Restore	
5.2.5	Backup	
J U		

NIRWare	
New empty database	23
Modify NIRWare Connection File	24
Check Integrity	24
Mark / Unmark as Archive	24
Restore	24
Measurement Database	24
New empty database	25
Requirements	26
Troubleshooting	27
Using another folder to store backups	
Database restore failed – BUCHI software runs on another PC	
Connect to SQL Server dialog	
Server Messages Window	
Unlocker Dialog	
Running Scripts Dialog	
Some basic info about some database functions	39
	New empty database Upgrade / Setup Modify NIRWare Connection File Check Integrity Mark / Unmark as Archive Restore Measurement Database New empty database New empty database Requirements Troubleshooting Using another folder to store backups. Exception Dialog. Database restore failed – Access is denied Database restore failed – BUCHI software access the DB Database restore failed – BUCHI software runs on another PC Connect to SQL Server dialog Check DB Show software accessing the server or DB Start and Stop Windows Services. Server Messages Window Unlocker Dialog Running Scripts Dialog

1 About this manual

This manual describes the BUCHI database manager 1.4 functions and solutions in case of errors which are related to customers operations.

The BUCHI database manager includes a lot of database maintenance functions, which are only allowed to be used for qualified MS SQL server administrators or under specific instruction of BUCHI software support.

1.1 Reference documents

For information on SepacoreControl, NIRWare, NIRCal, SepacoreRecord, please refer to

- SepacoreControl: Help File
- NIRWare: Help File or Operation Manual
- NIRCal: Help File or Operation Manual
- SepacoreRecord: Help File

1.2 Trademarks

The following product names and any registered and unregistered trademarks mentioned in this manual are used for identification purposes only and remain the exclusive property of their respective owners:

- Intel© is a registered trademark of Intel© Corporation
- Windows® is a registered trademark of Microsoft© Corporation
- SQL Server® is a registered trademark of Microsoft© Corporation

1.3 Abbreviations

DB	Database
MS	Microsoft
SQL	Structured Query Language
Admin mode	BDM runs as an user with Administrator rights within the operating
	system

2 Introduction

The BUCHI Database Manager (BDM) is a maintenance tool for SQL servers. It is built on Microsoft's Server management objects (SMO).

There are many general functions built in, separated in server and database functions. Additionally there are plugins for several BUCHI products using a SQL database. These plugins support specific functions and SQL scripts related to those products.

Function buttons with a Shield Icon (^{Se Attach...}) means, this function is only available when BDM was started in Admin mode. You can still press the buttons and a Dialog box appears and asks you, if you want to start BDM in Admin mode.

3 Overview on parts of software

3.1 Main View

🐻 Bu	chi Database Manager (BDM)							
File	Extras View Help							BUCHI
🖌 Ex	it 🗟 Connect 👼 Refresh Knov	vn databases 👻 🐻 Service	es 🛛 🗟 Show Serv	er Messages 🛛 💽 F	Run Scripts 🎲 Settings	🛛 🔞 Abou		
• 1	CHWS0254\BUCHISQLEXP2008	3	CHV	VS0254\B	UCHISQLEXP2	2008		
	I Measurement Database	Server Information						🚯 SQL Scripts
		Instance Name:	CHWS0254\BU0	CHISQLEXP2008				import SQL
	Sepacore	Host / IP:	CHWS0254 (169	.254.145.230), (fe80::	:14e9:33f2:92ba:16f2%10)			Detail -
-		Edition / Version:	Microsoft SQL Se	erver Express Edition v	with Advanced Services (64-bit)	, SP2, 10.50.	4000.0	-
		Default Collation:	Latin1_General_(CI_AS				Attach 4
		Default Database File Path:	c:\Program Files\	Microsoft SQL Server	MSSQL10_50.BUCHISQLEXF	P2008\MSSQ	L\DATA	Restore
		Default Logfile Path:	c:\Program Files\	Microsoft SQL Server	MSSQL10_50.BUCHISQLEXF	P2008\MSSQ	L\DATA	Show Locks Add new server
		Databases			-		_	
		Database name	Туре	Label	Status	Version	Description	Plugin specific
		MeasurementDatabase	NIRWare Transfer NIRSolution	AutoSampler Tests	Normal, Multiple	1.0.0 4.5	BDM - Pli BDM - Pli	🕲 New
		NIRSolution_1_2	NIRSolution	n.a.	Normal, Multiple	3.8	BDM - Pli	
		Sepacore	SepacoreRecord		Normal, AutoClosed, Multiple			
		SepacoreControl	SepacoreControl	SepacoreControl	Normal, AutoClosed, Multiple	1.1.1.5000	BDM - Ph	
		<u>د</u>					Þ	
		NIRWare: 🚺 Modify NI	RWare Connectior	n File 📑 Check Int	egrity 5			
		B						
	m >	4						8
	m > Main Toolbar (re	4	0)					8
	Main Toolbar (re Tree panel: SQL	efer to chapter (atabases				8
7		efer to chapter (Server and av	ailable da	atabases			(8
	Tree panel: SQL SQL Server and	efer to chapter (Server and av	vailable da mation	atabases				8
7	Tree panel: SQL SQL Server and - SQL Serve	efer to chapter (. Server and av database infor	vailable da mation ter 0)	atabases				8
7	Tree panel: SQL SQL Server and - SQL Serve	efer to chapter (Server and av database infor r (refer to chapt iew (refer to ch	vailable da mation ter 0) apter 0)		pter 0)			8
	Tree panel: SQL SQL Server and – SQL Serve – Database v	efer to chapter (Server and av database infor r (refer to chapt iew (refer to ch ing selected da	vailable da mation ter 0) hapter 0) tabase (re	efer to cha	pter 0)			8 •••••••••••••••••••••••••••••••••••••
	Tree panel: SQL SQL Server and - SQL Serve - Database v Functions referr BUCHI software	efer to chapter (Server and av database infor r (refer to chapt iew (refer to ch ing selected da specific functio	vailable da mation ter 0) hapter 0) tabase (re ons (Plugi	efer to cha ns)	pter 0)			8
7	Tree panel: SQL SQL Server and – SQL Serve – Database v Functions referr BUCHI software Logger and info	efer to chapter (Server and av database infor r (refer to chapt iew (refer to ch ing selected da specific function panel (refer to	vailable da mation ter 0) apter 0) tabase (re ons (Plugi chapter 3	efer to cha ns) .7)	· · ·			
	Tree panel: SQL SQL Server and – SQL Serve – Database v Functions referr BUCHI software Logger and info	efer to chapter (Server and av database infor r (refer to chapt iew (refer to ch ing selected da specific function panel (refer to panel (refer to ch	vailable da mation ter 0) apter 0) tabase (re ons (Plugi chapter 3 nen the BI	efer to cha ns) .7) DM is busy	,			
	Tree panel: SQL SQL Server and - SQL Serve - Database v Functions referr BUCHI software Logger and info Working indicator	efer to chapter (Server and av database infor r (refer to chapt iew (refer to chapt ing selected da specific function panel (refer to panel (refer to panel (specific function panel specific function panel (specific function panel specific function panel (specific function panel specific function panel specif	vailable da mation ter 0) apter 0) tabase (re ons (Plugi chapter 3 nen the BI	efer to cha ns) .7) DM is busy nning is ac	tivated			
	Tree panel: SQL SQL Server and – SQL Serve – Database v Functions referr BUCHI software Logger and info	efer to chapter (Server and av database infor r (refer to chapt iew (refer to chapt ing selected da specific function panel (refer to panel (refer to panel (specific function panel specific function panel (specific function panel specific function panel (specific function panel specific function panel specif	vailable da mation ter 0) apter 0) tabase (re ons (Plugi chapter 3 nen the BI	efer to cha ns) .7) DM is busy nning is ac	tivated	mode	(Wind	

3.2 Main Toolbar (1)

Most of the Toolbar items are also in the menu bar defined.

```
✔ Exit 🗟 Connect 🗟 Refresh Known databases 👻 🐻 Services 🛛 🗟 Show Server Messages 🛛 💽 Run Scripts... 🖓 Settings... 🖓 About
```

Exit	Exits the BDM
Connect	Opens the Connection Dialog to connect to another SQL server
Refresh Known / All databases	Refreshes the database list: Known: only known (BUCHI) databases are listed All: all databases are listed, including Offline
Services	Opens the services dialog (see further below)
Show Server Messages	Opens a window where all messages sent by the SQL server are listed. This is used only maintenance reasons
Run Scripts	Opens the Script Runner Dialog (see below)
Settings	Opens the Settings dialog (see below)
About	Opens the About Dialog with version and plugins information

3.3 Server View (3)

When the SQL server is selected in the tree panel the following view is active. Under 'Server Information' are the main properties listed from SQL Server. Below under 'Databases' are all known BUCHI DB listed.

Server Information						SQL Scripts
Instance Name:	CHWS0254\BUC	HISQLEXP2008				🚱 Import SQL
Host / IP:	CHWS0254 (169	.254.145.230), (fe80::	14e9:33f2:92ba:16f2%10)			
Edition / Version:	Microsoft SQL Se	rver Express Edition v	vith Advanced Services (64-bit)	, SP2, 10.50.4	4000.0	进 Detail
Default Collation:	Latin 1_General_(CI_AS				🛃 Attach
Default Database File Path:	c:\Program Files\	Microsoft SQL Server	MSSQL10_50.BUCHISQLEX	2008\MSSQ	L\DATA	😼 Restore
Default Logfile Path:	c:\Program Files\	Microsoft SQL Server	MSSQL10_50.BUCHISQLEX	2008\MSSQ	L\DATA	🔞 Show Locks
Databases 2						🙀 Add new server.
Database name	Туре	Label	Status	Version	Descriptio	Plugin specific
📑 Measurement Database	NIRWareTransfer	NIRWareTransfer	Normal, Multiple	1.0.0	BDM - Pli	🗐 New
NIRSolution	NIRSolution	AutoSampler Tests	Normal, Multiple	4.5	BDM - Pli	
NIRSolution_1_2	NIRSolution	n.a.	Normal, Multiple	3.8	BDM - Pli	
Sepacore	SepacoreRecord	SepacoreRecord	Normal, AutoClosed, Multiple	1.2.1000.0	BDM - Pli	(4)
SepacoreControl	SepacoreControl	SepacoreControl	Normal, AutoClosed, Multiple	1.1.1.5000	BDM - Pli	-
< III					+	

1	Some important information about the connected server is displayed
2	the known or all databases found on the server are listed
3	Plugin specific functions which don't belong to a specific database
4	Server functions: (see below)

3.4 Functions related to the SQL server (4)

3.4.1 SQL Scripts

Opens the SQLScriptRunner Dialog and shows server related scripts to execute.

3.4.2 Import SQL

Imports server related SQL scripts provided by the customer support. Please follow the instruction given by support.

3.4.3 Detail

Switches the databases view between:

- Detail
- Grouped with type
- Grouped with status

3.4.4 Attach

This function attaches a database to the server by providing the MDF and LDF file. Because there are plugin specific Attach procedures, a dialog appears where you have to select the required Attach item. It is recommended always to use the plugin specific functions!

Function Selector for Attach	
Attach_	
There are multiple functions for "Attach". Select the the method you want or press Cancel.	
Available methods	
General	
🛃 Sepacore Record	
SepacoreControl	
K Cancel	

In the following Attach Dialog first select an MDF file. If there is a corresponding LDF file it is automatically added to the list.

Then enter a database name which must be unique within the SQL server!

Please consider that when attaching it with the option Read-only, the application has no write access to it.

If the SQL server is a remote server, the files listed to select are files on the remote server.

Attach Database		o X
1. Select Database Files		
	Add	Remove
C:\Program Files\Microsoft SQL Server\MSSQL10_50.BUCHISQLEXP2008\MSSQL\DATA\ C:\Program Files\Microsoft SQL Server\MSSQL10_50.BUCHISQLEXP2008\MSSQL\DATA\		
2. Define an unique database name		
NIRSolutionIdentification		
3. Select the Options		
Normal State		
Attach as readonly		
	Cancel	Attach

3.4.5 Restore

This function restores a previously done backup.

Because there are plugin specific Restore procedures, a dialog appears where you have to select the required Restore item. It is recommended always to use the plugin specific functions! See at the Database View for a deeper explanation.

Function Selector for Restore
Restore
There are multiple functions for "Restore". Select the the method you want or press Cancel.
Available methods
Seneral
SepacoreRecord
SepacoreControl
S NIRWare
Cancel

- 1. Close all open BUCHI software
- 2. Select in the left tree panel the DB for restore
- 3. Select a backup from the list or select a backup file
- 4. If you call restore from the server view, you have to enter an unique database name If you call restore from the database view you may choose the default database or enter a new unique database name
- 5. Click on 'OK'

	Backup Date	Name	Size	Server	Backup File Location
۱.	11/08/2011 16:13	NIRSolution Backup	24685568	CHWS0254\BUCHISQLEXP2008	C:\Users\boer\Documents\Da
	11/07/2011 13:33	NIRSolution Backup	199118336	CHNB0135\BUCHISQLEXP2005	C:\Users\boer\Documents\Da
	10/19/2011 16:03	Sepacore_1_0_0_1000 Backup	1860096	BOERWIN7\BUCHISQLEXP2005	C:\Users\boer\My Database B
	10/19/2011 16:03	Sepacore_1_0_0_1 Backup	1924608	BOERWIN7\BUCHISQLEXP2005	C:\Users\boer\My Database B
	10/17/2011 10:16	SqlFileStream Backup	3584000	CHWS0254\BUCHISQLEXP2008	C:\Users\boer\Documents\Da
	10/12/2011 12:21	NIRSolution Backup	47335424	WNORUSLKZRNX5\BUCHISQLEXP2005	C:\Users\boer\My Database B
	08/25/2011 08:56	NIRSolution Backup	3904032256	STFRPA047\BUCHISQLEXP2005	C:\Users\boer\Desktop\Trans
	08/19/2011 11:20	SepacoreControl Backup	4865024	CHWS0254\BUCHISQLEXP2008	C:\Users\boer\Documents\Da
	08/19/2011 11:20	Sepacore Backup	10901504	CHWS0254\BUCHISQLEXP2008	C:\Users\boer\Documents\Da
	03/19/2010 09:50	NIRSolution Backup	24698368	CHWS0075\BUCHISQLEXPRESS	N:\Projects\NIRWare 1.4\Bin
	03/05/2010 15:29		49430016	TRAINING01\BUCHIMSDE2000	C:\Users\boer\Desktop\Tran
Pleas		up file L Server needs full read access to y as system service within the grou			
	e Database Name				
Re	store to default databa	ise:			
Re	store to new database	e la			

means that the database name is missing or not unique

check the entered name

	Backup Date	Name	Size	Server	Backup Fil
▶ <u>▲</u>	12/01/2011 14:48	NIRSolution Backup	196169728	CHWS0254\BUCHISQLEXP2008	C:\Users\b
	11/08/2011 16:13	NIRSolution Backup	24685568	CHWS0254\BUCHISQLEXP2008	C:\Users\b
	11/07/2011 13:33	NIRSolution Backup	199118336	CHNB0135\BUCHISQLEXP2005	C:\Users\b
	10/19/2011 16:03	Sepacore_1_0_0_1000 Backup	1860096	BOERWIN7\BUCHISQLEXP2005	C:\Users\b
	10/19/2011 16:03	Sepacore_1_0_0_1 Backup	1924608	BOERWIN7\BUCHISQLEXP2005	C:\Users\b
	10/17/2011 10:16	SqlFileStream Backup	3584000	CHWS0254\BUCHISQLEXP2008	C:\Users\b
	10/12/2011 12:21	NIRSolution Backup	47335424	WNORUSLKZRNX5\BUCHISQLEXP2005	C:\Users\b
	08/25/2011 08:56	NIRSolution Backup	3904032256	STFRPA047\BUCHISQLEXP2005	C:\Users\b
	08/19/2011 11:20	SepacoreControl Backup	4865024	CHWS0254\BUCHISQLEXP2008	C:\Users\b
	08/19/2011 11:20	Sepacore Backup	10901504	CHWS0254\BUCHISQLEXP2008	C:\Users\b
•	00/10/0010 00 50	III	24000200		NUM
🔔 Re	move entries where b	ackup file does not exist	-		

There might be an warning mark on a backup row, which means that the correspondig file is missing. With the button below those entries are removed.

When selecting another backup file there are 2 possibilites depending if the SQL server is local or remote:

Server is local A file selection box is displayed where you can select a backup file

Server is remote A special file selection dialog is displayed where you can select backup files store on the host where the remote SQL server is located.

3.4.6 Show Locks

This function shows all possible locks or open connection to the SQL server. The info is shown in the logger window and might be used by the support for error evaluating.

Po	ssible locks on (local)\BUCHISQLEXP2008: ssible locking processes: D = 51, Type = Sch-M, Name = 51, Application = .Net SqlClient Data Provider, Login = sa, Host = CHWS0254 EventType=Language Event, Parameters=0, EventInfo=SELECT TimeStamp, SampleID, Name, GUID, Comment, Origin, Supplier, B	atc	*
∢	III	P	

3.4.7 Add new server (after changing the PC name)

Please proceed as follow after a change of the PC name.

- 1. Select the SQL server name (e.g. PC name\BuchiSqlExpress) in the tree panel
- 2. Click on 'Add new server...' in the right panel
- 3. Click on 'OK'

Servers to drop:	Server ID	Registered Name	Modify Date
	0	CHWS0075\BuchiSqlExpress	03/09/2011 15:03:56
New Server Name:		pping. Only add new server name 75\BuchiSqlExpress	e
The above entry with i	ndex 0 is alway the selected s	sed when the computer name wa ys the current registered local ser server to the new server name wr vers. Otherwise press Cancel	

3.5 Database View (3)

Under Database Information are the main properties of the currently selected DB displayed. On the right side panel, all database related functions are listed (see below).

	SepacoreControl	
Database Information	1	🚯 SQL Scripts
Database Name:	SepacoreControl, Label = SepacoreControl	🚱 Import SQL
Database Version:	1.1.1.5000	Check
Database Size [MB]:	6.563	Shrink
Database Collation:	SQL_Latin1_General_CP1_CI_AS	Show Locks
Database States:	Normal, Multiple	
Date:	Creation Date: 08/19/2011 08:46:41	Readonly 2
Database Files:	SepacoreControl c:\Program Files\Microsoft SQL Server \MSSQL10_50.BUCHISQLEXP2008\MSSQL\DATA\SepacoreControl.mdf	Rename Set Offline
Database Log Files:	SepacoreControl_log c:\Program Files\Microsoft SQL Server \MSSQL10_50.BUCHISQLEXP2008\MSSQL\DATA \SepacoreControl_log.LDF	📑 Detach 🕼 Single Mode 🔊 Delete
Additional Infos:	n.a.	Backup
Recommendation: 🐼	Database name and database file names correspond.	SepacoreControl specific: New Attach Restore Delete System Configuration(s)
	▼ 1111111111111 ▼	

1	Information about the selected database
2	General database functions
3	Plugin specific database functions

3.6 General database related functions (4)

3.6.1 SQL Scripts

Opens the SQLScriptRunner Dialog and shows the database related scripts to execute.

3.6.2 Import SQL

Imports database related SQL scripts provided by the customer support. Please follow the instruction given by support.

3.6.3 Check

This function checks the consistency of the database. The result is written to the logger window.



If checking with deep scan please consider that it might run for a longer time. The results of the Check are written to the Logger window.

3.6.4 Shrink

This function is similar to defrag function of windows. It eliminates the gaps and truncates the empty space at the end. So it is possible to shrink the database size. It is recommended to use the default setting at the following dialog. If the Truncate is checked then all data in the Log file (LDF) is first copied to the main data file (MDF). To leave the default amount of "Target Percent" gives a better performance for further database transactions.

🔒 Shrink Database	×
Shrink Options	
Target Percent	20
Truncates the database log	
ОК	Cancel

3.6.5 Show Locks

This function shows all possible locks or open connection to the SQL server. The info is shown in the logger window and might be used by the support for error evaluating.



3.6.6 Read-only / Writeable

With this function it is possible to set the database in Read-only or Writeable state. Please consider that a read-only database is inaccessible by the underlying application!

3.6.7 Rename

A database has a name which is listed in tree on the left side of the BDM. This name must be unique within the SQL server. The database's data is stored in files, in a MDF file and in a LDF file. This data files also has logical names. Usually all these names correspond as shown below:

Database name			{theName}
Data files	Logical name		Filename
MDF file	{theName}		Path/{theName}.mdf
LDF file	{theName}_log		Path/{theName}_log.ldf
In several circumstan	ces it can happen that the	se names d	o not correspond any longer (for
example when creating	ng a NIRSolution archive o	on a remote	server). This will be signaled by BDM:
Renaming is recommend	led!	On the ser	ver view
Recommendation: 🗟	Renaming is recommended!	On the dat	abase view
Renaming is recommend	led but not available!	On the ser	ver view if it is a remote server

With the Rename function it is possible to change the database name and on local servers also the data files name:

🚼 Rename Databases / Files	
-1. Define the new database Name	,
The original database name is: N	IIRSolution_1_2
NIRSolution 1 2 2	Copy original database name
 Define the filenames of the data 	
Select a datafile in the list below t Press Change to commit the new Press Recommended to set the re	
	New Filename
DATA\NIRSolution_1_2.mdf	C:\Program Files\Microsoft SQL Server\MSSQL10_50.BUCHISQLEXP2008\MSSQL\DATA\NIRSolution_1_2_2.mdf
\DATA\NIRSolution_1_2_log.ldf	C:\Program Files\Microsoft SQL Server\MSSQL10_50.BUCHISQLEXP2008\MSSQL\DATA\NIRSolution_1_2_2_log.ldf
4	4
Edit the new datafile name below	wand press channe to accent it
	Change Recommended
-3. You may also use the recommer	nded settings
	4 Use Recommended
4. See the Summary	
Renaming datafile from C:\Program Files\Microsoft SQL Server\MSSG Renaming datafile from C:\Program	IRSolution_1_2 to NIRSolution_1_2_2 m Files\Microsoft SQL Server\MSSQL10_50.BUCHISQLEXP2008\MSSQL\DATA\NIRSolution_1_2.mdf to C:\Program QL10_50.BUCHISQLEXP2008\MSSQL\DATA\NIRSolution_1_2_2.mdf m Files\Microsoft SQL Server\MSSQL10_50.BUCHISQLEXP2008\MSSQL\DATA\NIRSolution_1_2_log.ldf to C:\Program QL10_50.BUCHISQLEXP2008\MSSQL\DATA\NIRSolution_1_2_2_log.ldf
	Rename Kancel

If a database has a recommendation to rename it, the above dialog is already filled with the needed entries. You only have to press the Rename button. This is also done by pressing the button "Use Recommended" (4).

If you want to rename the database name, enter the new name into the first field (1). With the "Copy original database name" (3), the current database name is entered into (1). Then press "Recommended" (2) to setup the renaming of the data files. Then press Rename.

3.6.8 Set Offline / Online

With this function you can set a database to Offline or back to Online. Please consider that an Offline database is not recognized as a *known* database. So to make it listed, choose "**Refresh**" all databases in the main toolbar.

3.6.9 Detach

Detaching a database does the following: Disconnect all data files (MDF, LDF) from the SQL server, but leaves the data files in the folder.

3.6.10 Single / Multiple Mode

Setting the database into Single mode means the same as setting it to exclusive access. Only one connection at the same time is allowed. This inhibits other users to access and probably modify it.

3.6.11 Delete

In contrast to Detach, the Delete function also disconnects all data file from the SQL server and additionally DELETES also the data files. So please handle with care and do a backup first! Because of that an extended confirmation dialog is displayed where you have to confirm the deletion multiple times.

R Delete Database
Delete Confirmation
A
1. Please consider, that deleting the database is an irreversible operation, so it can't be undone. All data are lost afterwards!
2. Optionally you also can delete the backup history of the database to be deleted:
Delete also backup history (Recommended)
≙
3. Confirm by reenter the database name you want to delete:
NIRSolution_1_2
A
4. Confirm that you really want to delete the database NIRSolution_1_2.
A
5. Confirm again that you really want to delete the database NIRSolution_1_2.
OK 🄀 Cancel

3.6.12 Backup

- 1. Select in the left tree panel the DB for backup
- 2. Press Backup...
- 3. Check that the backup destination is defined as you want. (1) "Custom" (2) is recommended, which is defined in the settings and is by default "%PublicDocuments%\Buchi\BuchiSQLServer\Backup". "SQL Server" (3) chooses the Backup path defined by the SQL Server
- 4. Optionally you may enter a description. (4)
- 5. Customize the filename when it is needed. (5)
- 6. Inspect the resulting Backup file name. (6)
- 7. Click on 'OK'

Database Backup	Set the backup folder to custom o	defined within the settings.
Backup destination folder	(only usable on local servers!)	
C:\Users\boer\Documents\Databas	e Backups	1 🔐 Custom 🖳 SQL Server
	stination folder. needs full write access to the backup de m service within the group NETWORK_	
Backup Description (optional)		
Full Backup of NIRSolution 4		
Backup Filename	5	
Use Prefix	Add current date	☑ Use Postfix
		Manual
Resulting filename:		
C:\Users\boer\Documents\Database	Backups\NIRSolution_2013-02-22_Ma	nual.bk 6
		Cancel

3.6.13 Restore

This function allows restoring a previously done backup. A function selector dialog appears when clicking this function in the server view.

Restore
nestore
There are multiple functions for "Restore".
Select the the method you want or press Cancel.
le methods
neral
pacoreRecord
pacoreControl
RWare

- 1. Close all open BUCHI software
- 2. Select in the left tree panel the DB for restore
- 3. Select a backup from the list Or select a backup file
- 4. If you call restore from the server view, you have to enter an unique database name If you call restore from the database view you may choose the default database or enter a new unique database name
- 5. Click on 'OK'

	Backup Date	Name	Size	Server	Backup File Location
	11/08/2011 16:13	NIRSolution Backup	24685568	CHWS0254\BUCHISQLEXP2008	C:\Users\boer\Documents\Dat
	11/07/2011 13:33	NIRSolution Backup	199118336	CHNB0135\BUCHISQLEXP2005	C:\Users\boer\Documents\Dat
	10/19/2011 16:03	Sepacore_1_0_0_1000 Backup	1860096	BOERWIN7\BUCHISQLEXP2005	C:\Users\boer\My Database Ba
	10/19/2011 16:03	Sepacore_1_0_0_1 Backup	1924608	BOERWIN7\BUCHISQLEXP2005	C:\Users\boer\My Database B
	10/17/2011 10:16	SqlFileStream Backup	3584000	CHWS0254\BUCHISQLEXP2008	C:\Users\boer\Documents\Dat
	10/12/2011 12:21	NIRSolution Backup	47335424	WNORUSLKZRNX5\BUCHISQLEXP2005	C:\Users\boer\My Database Ba
	08/25/2011 08:56	NIRSolution Backup	3904032256	STFRPA047\BUCHISQLEXP2005	C:\Users\boer\Desktop\Transf
	08/19/2011 11:20	SepacoreControl Backup	4865024	CHWS0254\BUCHISQLEXP2008	C:\Users\boer\Documents\Dat
	08/19/2011 11:20	Sepacore Backup	10901504	CHWS0254\BUCHISQLEXP2008	C:\Users\boer\Documents\Da
	03/19/2010 09:50	NIRSolution Backup	24698368	CHWS0075\BUCHISQLEXPRESS	N:\Projects\NIRWare 1.4\Bin\
	03/05/2010 15:29		49430016	TRAINING01\BUCHIMSDE2000	C:\Users\boer\Desktop\Transf
1					
					,
Se	elect another back	up file			
		L Server needs full read access to y as system service within the grou			
ine :	SQL Server runs usual	y as system service within the grou		_SERVICE.	
)efin	e Database Name				
Re	store to default databa	ise:			
	store to new database	et al la construction de la constru			

means that the database name is missing or not unique

check the entered name

0

	Backup Date	Name	Size	Server	Backup Fil
▶ <u>▲</u>	12/01/2011 14:48	NIRSolution Backup	196169728	CHWS0254\BUCHISQLEXP2008	C:\Users\b
	11/08/2011 16:13	NIRSolution Backup	24685568	CHWS0254\BUCHISQLEXP2008	C:\Users\b
	11/07/2011 13:33	NIRSolution Backup	199118336	CHNB0135\BUCHISQLEXP2005	C:\Users\b
	10/19/2011 16:03	Sepacore_1_0_0_1000 Backup	1860096	BOERWIN7\BUCHISQLEXP2005	C:\Users\b
	10/19/2011 16:03	Sepacore_1_0_0_1 Backup	1924608	BOERWIN7\BUCHISQLEXP2005	C:\Users\b
	10/17/2011 10:16	SqlFileStream Backup	3584000	CHWS0254\BUCHISQLEXP2008	C:\Users\b
	10/12/2011 12:21	NIRSolution Backup	47335424	WNORUSLKZRNX5\BUCHISQLEXP2005	C:\Users\b
	08/25/2011 08:56	NIRSolution Backup	3904032256	STFRPA047\BUCHISQLEXP2005	C:\Users\b
	08/19/2011 11:20	SepacoreControl Backup	4865024	CHWS0254\BUCHISQLEXP2008	C:\Users\b
	08/19/2011 11:20	Sepacore Backup	10901504	CHWS0254\BUCHISQLEXP2008	C:\Users\b
•	00/10/0010 00 50	III	24000200		NUMBER
🔔 Re	move entries where b	ackup file does not exist	4		

There might be an exclamation mark on a backup row, which means that the correspondig file is missing. With the button below such entries are removed.

When selecting another backup file there are 2 possibilites depending if the SQL server is local or remote:

Server is local	A file selection box is displayed where you can select a backup file
Server is remote	A special file selection dialog is displayed where you can select backup files
	store on the host where the remote SQL server is located.

3.7 Logger and info panel (6)



1	Clears the log
2	Saves the contents of the logger into a text file
3	Copies the content of the logger to clipboard

3.8 About dialog

The green bar shows the current software version. Within the Plugins group box, there are all loaded plugins listed.

About Buchi.Database.Manager	<u> </u>	The logit	-	
	Buchi Database	Manager (B	DM) V	Version 1.3.7000
	2013 Buchi Labortechnik AG			
	Assembly Version 2.2.5.0 (07/29/2013 14:44)			
	Buchi Database Manager			
DUCUU	Advanced Management Tool for Buchi SQL D Use for qualified personnel only! Buchi does not guarantee for misuse, or holds responsibility for data integrity of cus So please use it with care!		ases.	•
KIII:HI	Plugins	.		D
	Name	Displayed		Description
SWITZERLAND	BDM - Plugin for NIRWare databases BDM - Plugin for NIRWare transfer measurements databases	NIRWare NIRWare Transfer	2.2.2.0	BDM - Plugin for NIRWare databases BDM - Plugin for NIRWare transfer databases
	BDM - Plugin for Nintwate transfer measurements databases	SepacoreControl	2.2.1.0	-
	BDM - Plugin for SepacoreRecord databases	Sepacore Record	2.2.1.0	2
	🖪 General SQL Database	General	2.2.6.0	A SQL database not known to the Buchi.Database.Manager
	✓ III			, ,
				<u>✓ 0</u> K

4 Settings

With the settings dialog one can define some general settings. It is separated into general options and plugin specific settings.

4.1 General Options

🁌 Settings Dialo	
General Option NIRWare Settir	Teneral Options 2
	Language Invariant Language (Invariant Country)
	Backup Settings Custom Backup Folder: (only valid on local host!) C:\Users\boer\Documents\Database Backups Default to local Default to common
	Allow Restore and Attach on remote servers:
	Reset to factory settings Reset 5
[In this section are some general settings.
	OK KCancel

1	You reach the general option by selecting it on the left side.
2	Select here the language of the GUI. There are no other languages available at the time than English.
3	This is the Custom Backup Folder. This folder is created by BDM and also the needed access rights are checked and set. So the user and the SQL server have access to it. The folder might be on the users local documents or the PC's common documents.
4	If checked, then attach and restore on remote SQL servers are allowed
5	All settings, also the plugin settings are reset to their initial factory state.

4.2 NIRWare Settings

🔥 s	ettings Dialog			
	eral Options	NIRWare Settings		
NIR	Ware Settings	NIRSolution Folder:	U:\Bin\Debug\Run	
			2	
		NIRWare specific settir	ngs	
				Cancel VK
1 2	You reach the NIRWare		ig it on the left side. M automatically, if NIRWare	is installed
2	lets BDM exam			
	you can select	the folder yourself		

5 Plugin specific functions

5.1 Sepacore Control

Please consider that creating and upgrading a SepacoreControl database is only available when a SepacoreControl version 1.2 is installed! Also Attach and Restore will be done as General database (no further post processing)

You will find the specific functions in:

Server View	On the right side menu:
	Attach
	la Restore
	Bhow Locks
	🙀 Add new server
	Plugin specific
	🕲 New

Server View	On the right side menu: Attach Restore Show Locks Add new server Plugin specific New
Database View (of a SepacoreControl DB)	On the right hand side: New Attach Restore Delete System Configuration(s)

5.1.1 New empty database

Close SepacoreControl Software before you want to create a new database!

Press the New button ^{log New} in the server below at the SepacoreControl functions or in the database view of a SepacoreControl database on the right hand site toolbar.

You will get a warning which reminds you that a new empty Sepacore Control Database will be created and will overwrite the old existing database, all data getting lost. Attention: For sure make at first a backup.

🚼 Create New Database	—
New Database Info	
A	
A new Sepacore Control Database will be created:	
Server: (local)\BuchiSqlExpress	
Database: SepacoreControl	
Please Note, that the existing database will be overwritten and all data getting lost!	
Have you done a backup?	
A	
Confirm that you really want to create a new database and that you know that the existing database will be overwritten!	
ОК Са	ancel

You must confirm this by clicking the check box and then click on OK.

5.1.2 Attach

It's same function as described in **3.4.4 Attach**, except that after attaching the correct user mappings are set.

5.1.3 Restore

Close SepacoreControl Software before you want to create a new database!

Press the New button Restore in the server below at the SepacoreControl functions or in the database view of a SepacoreControl database on the right hand site toolbar.

See in 3.6.13 Restore.

This specific functions executes the general restore function and does some specific settings afterward so setup the database usable.

5.1.4 Backup

See in 3.6.12 Backup.

5.1.5 Delete System Configuration

Close Sepacore Control Software first!

After clicking on the Delete System Configuration(s) button, following Dialog boxes appears:

Delete Syst	tem Configuration	×
?	All system configurations are removed except configurations for PC name WIN-5JFKG8RTQ4H.	
	OK	

You will be informed that the unused system configurations have been removed.



5.2 SepacoreRecord

Please consider that creating and upgrading a Sepacore Record database is only available when a Sepacore Record version 1.2 is installed! Also Attach and Restore will be done as General database (no further post processing)

You will find the specific functions in:

Server View On the right side menu:

	 Attach Restore Show Locks Add new server Plugin specific New
Database View (of a SepacoreRecord DB)	On the right hand side: SepacoreRecord specific: New Upgrade Attach Restore

5.2.1 New empty database

Close SepacoreControl Software before you want to create a new database!

Press the New button ¹New in the server below at the SepacoreControl functions or in the database view of a SepacoreControl database on the right hand site toolbar.

You will get a warning which reminds you that a new empty Sepacore Control Database will be created and will overwrite the old existing database, all data getting lost. Attention: For sure make at first a backup.

😤 Create New Database	
New Database Info	
A	
A new SepacoreRecord Database will be created:	
Server: (local)\BUCHISQLEXP2008	
Database: Sepacore	
Please Note, that the existing database will be overwritten and all data getting lost	
Have you done a backup?	
Confirm that you really want to create a new database and that you know that the existing database will be overwritten!	
OK Cancel]

You must confirm this by clicking the check box and then click on OK.

5.2.2 Upgrade

If the SepacoreRecord database's version already is the latest, then this function is disabled. So it is only possible to upgrade the database to the latest version. After pressing the Upgrade button Upgrade, the following Info appears where you still can abort the upgrade with Cancel.



And after successfully upgrading the Success Message appears.

Success	×
Upgrading the database "Sepacore has been su	ccessfully finished.
	ОК

You can check the current database version always in the Database Information panel.



5.2.3 Attach

It's same function as described in **3.4.4 Attach**, except that after attaching the correct user mappings are set.

5.2.4 Restore

Close SepacoreControl Software before you want to create a new database!

Press the New button **Restore** in the server below at the SepacoreControl functions or in the database view of a SepacoreControl database on the right hand site toolbar. See in **3.6.13 Restore**.

This specific functions executes the general restore function and does some specific settings afterward so setup the database usable.

5.2.5 Backup

See in 3.6.12 Backup.

5.3 NIRWare

Most of the NIRSolution specific functions are only available when NIRWare is installed! You will find the specific functions in:

Server View	Below the database list:
	NIRWare: 👔 Modifiy NIRWare Connection File 🥞 New 📑 Check Integrity
	On the right side menu:
	🗟 Attach
	Restore
	Show Locks Add new server
	Plugin specific
	1 New
Database View (of a NIRSolution	On the right hand side:
DB)	NIRWare specific:
	1 New
	🔞 Upgrade / Setup
	Sectore
	Modify NIRWare Connection File R Check Integrity
	Mark as Archive
	Unmark as Archive

5.3.1 New empty database

This function creates a new NIRSolution database with the fixed name as it is defined within the connection file (usually NIRSolution). If there is already such a database a warning message appears.



5.3.2 Upgrade / Setup

Starts the Shell tool with the option –e setup with current database and upgrades the database if needed.

5.3.3 Modify NIRWare Connection File

On behalf of the Connection dialog the NIRWare connection file is edited and stored.

5.3.4 Check Integrity

With this function the integrity of the NIRSolution database is checked. In fact there are following checks:

- Connection file exists
- Online
- Writeable
- Version is up to date
- Multiple user access

5.3.5 Mark / Unmark as Archive

If a database is marked as Archive then it is Read only has a special entry to mark it as Archive. With this function it is possible to set or unset this behavior.

5.3.6 Restore

The NIRWare specific Restore acts as the normal one. Additionally there is an advice to execute the Upgrade / Setup function after the successful restore.

Info	X
0	You restore a NIRSolution database. It is recommended to Upgrade / Setup this database after restore! You can achieve this by selecting the NIRWare database and then choosing "Upgrade / Setup" in the NIRWare actions below right. Choose yes to upgrade immediately after restore.
	Yes No

5.4 Measurement Database

This is a special database used by the Automation interface of the NIRSolution 1.5. You will find the specific functions in:

Server View On the right side menu:

	 Attach Restore Show Locks Add new server Plugin specific New
Database View (of a SepacoreRecord DB)	On the right hand side: NIRWareTransfer specific: New

5.4.1 New empty database

Close the Automation Interface Client Software before you want to create a new database! Press the New button ¹ New in the server view or in the database view of a Measirement database on the right hand side toolbar.

Attention: For safety make at first a backup. You can enter the name. If you choose the old name, then the database will be overwritten.

Create New NIRWare Transfer Database
Please enter Database Name
⚠ MeasurementDatabase
OK 🄀 Cancel

You will get a warning which reminds you that a new empty Measurement Database will be created and will overwrite the old existing database, all data getting lost.

📩 Create New NIRWare Transfer Database
New Database Info
A new NIRWare transfer Database will be created:
Server: (local)\BUCHISQLEXP2008
Database: MeasurementDatabase
Please Note, that the existing database will be overwritten and all data getting lost!
Have you done a backup?
Confirm that you really want to create a new database and that you know that the existing database will be overwritten!
OK 🔀 Cancel

You must confirm this by clicking the check box and then click on OK.

Requirements 6

Minimum system requirements:

- Windows 7 Professional / Ultimate / Enterprise (32 & 64 bit) SP1
- Windows 8 (64 bit)
- Windows 10 (64 bit)
- Intel Core i3 or higher and 1.4GHz or faster
 30 MB of free hard disk space
- 2048 MB RAM
- Display resolution: 1280 x 1024 (1024 x 768 minimum)

7 Troubleshooting

7.1 Using another folder to store backups

Maybe another folder shall be used to keep the backups. **Recommendation:** Create this a new folder below root of drive C:\

Please refer to below solution to set the needed permissions on this folder:

Windows 7

1. Disable 'Sharing Wizard':

Open Start => Windows Explorer => menu Organize => Folder and search options

G	🔵 🗢 🕌 « Program Files 🕨 B	luchi 🕨 BuchiSqlEx	press2005 🕨 MSSQI	.1 → MSSQL → Back	up 👻 🐓
Or	rganize 👻 Include in library 🔻	Share with 🔻	Burn New f	older	
H	Cut	^		Date modified	Туре
È	Copy Paste	lution_2011-01-1	4.bk	1/14/2011 5:26 AM	BK File
	Undo Redo				
	Select all				
	Layout Folder and search options	►			
\times	Delete				

Folder Options => tab 'View' => deactivate checkbox: 'Use Sharing Wizard (Recommended)'

Folder Options
General View Search
Folder views You can apply the view (such as Details or Icons) that you are using for this folder to all folders of this type. Apply to Folders Reset Folders
Advanced settings:
 Hide protected operating system files (Recommended) Launch folder windows in a separate process Show drive letters Show oncrypted or compressed NTFS files in color Show pop-up description for folder and desktop items Show preview handlers in preview pane Use check boxes to select items Use Sharing Wizard (Recommended) When typing into list view Automatically type into the Search Box Select the typed item in the view
Restore <u>D</u> efaults
OK Cancel <u>Apply</u>

- Go to the backup folder, e.g. C:\Sepacore_Backup
 Right-click on the folder and select 'Properties' => tab 'Security'
 Click on button 'Edit' then on the next window click on 'Add...' => button 'Advanced...' (bottom left corner)
- 5. Ensure that the location is set to your PC name and click on button 'Find Now'.

NIRSoluti	Select Users or Groups	? ×
Permissions for	Select this object type:	
Select Users or Gr	Users, Groups, or Built-in security principals From this location:	Object Types
Select this object	CHWS0230	Locations
Users, Groups, or	Common Queries	
From this location: CHWS0230	Name: Starts with 👻	Columns
Enter the object n	Description: Starts with 💌	Find Now
	Disabled accounts	Stop
	Non expiring password	
	Daus since last logon:	<i>_</i>

6. Select the user group 'SQLServer2005MSSQLUser\$[current or old PC

Disabled accounts	Stop	
Non expiring password		
Days since last logon:	<i>~</i>	
Search results:	OK Cancel]
Name (RDN)	In Folder	^
REMOTE INTERACTIVE LOGON		
Replicator	CHWS0230	
A SERVICE		
SQLServer2005MSSQLServerADHelperUser\$CHWS0231	CHWS0230	
SQLServer2005MSSQLUser\$CHWS0231\$BUCHISQLEXP2005	CHWS0230	
SQLServer2005SQLBrowserUser\$CHWS0231	CHWS0230	
A SYSTEM		
K TERMINAL SERVER USER		=
Kan This Organization Certificate		
At Users	CHWS0230	Ŧ

- 7. Click on 'OK' in window 'Select Users or Groups'
- 8. Click into checkbox 'Full Control' while user SQLServer2005.... is marked

Permissions for NIR_Backup		×
Security		
Object name: C:\NIR_Backup		
Group or user names:		
Authenticated Users		
SYSTEM Administrators (CHWS0230\A	dministrators)	
SQLServer2005MSSQLUsers	CHWS0231\$BU	CHISQLEXP
& Users (CHWS0230\Users)		
	Add	Remove
Permissions for SQLServer2005MSSQLUser\$CH\	Allow	Deny
Full control	V	
Modify	V	
Read & execute	V	
List folder contents	1	
List folder contents Read		

 If the folder Sepacore_Backup have been existing already proceed as follow: Click on button 'Advanced' => 'Change Permissions' => Activate checkbox 'Replace all child objects permissions with inheritable permissions from this object'

Permissions	d Security Settings for NIR_B s r edit details for a permission en		and then click Edit.	×
Object na Permissior				
Туре	Name	Permission	Inherited From	Apply To
Allow Allow Allow Allow Allow Allow	SQLServer2005MSSQLU Administrators (CHWS02 SYSTEM Users (CHWS0230\Users) Authenticated Users	Full control Full control Full control Read & execute Modify Remove	<not inherited=""> C:\ C:\ C:\ C:\</not>	This folder, subfolders a This folder, subfolders a This folder, subfolders a This folder, subfolders a This folder, subfolders a
Replac	e inheritable permissions from th e all child object permissions with <u>permission entries</u>		ons from this object	Cancel Apply

Click on 'OK' confirm to continue, and click again on 'OK' to close properties window of folder 'Sepacore_Backup'

7.2 Exception Dialog

If an unhandled exception is thrown by the application the following Exception Dialog appears. The gray bar displays the main statement of the error.

After a few seconds the details of exception are displayed.



- 2 Dragging this part, you can move the splitter
- 3 Copy all info to the Windows clipboard

Important Remark:

In case of required support, please copy all info to the clipboard, save the content into a Notepad or Word document to provide to the software support.

7.3 Database restore failed – Access is denied



Details from the gray box:

Database restore FAILED!

Please close all BUCHI applications!

Below are the possible open locks listed:

n.a.

Restore failed for Server 'PC4027P\BuchiSqlExpress'.

Cannot open backup device 'C:\Documents and Settings\Administrator\My

Documents\SepacoreControl_2011-07-01.bk'. Operating system error 5(Access is denied.).

Solution:

Per default the SQL server gets the backups saved in this folder: 'C:\Program Files\Buchi\Buchi\Gaterian SqlExpress2005\MSSQL.1\MSSQL\Backup'. Files that get copied or moved into the folder are subject of following rules defined by Microsoft:

Backups done by BUCHI Database Manager.

Backup files obtain automatically the required permissions.

Backups copied or moved from another drive.

When you copy or move an object to another drive, the object inherits the permissions of its new folder and has so the required permissions are given.

Backups done moved within same drive.

1. When an object is moved within the same drive, the object preserves its permissions by default. However, if you want to modify this behavior so that the object inherits the permissions from the parent folder contact the BUCHI software support or your sales representative for further help.

Starting with BDM version 1.1 there is also a possibility to use a custom backup folder, where the required permission is set.

7.4 Database restore failed – BUCHI software access the DB

Symptom:



Details from the gray box:

```
Database restore FAILED!

Please close all Buchi applications!

Below are the possible open locks listed:

Possible locking processes:

PID = 73, Type = Sch-M, Name = 73, Application = .Net SqlClient Data

Provider, Login = SepacoreControlUser, Host = [local PC name]
```

In the error message can be checked, if running BUCHI software causes the failed restore. If there are locking processes listed (starting with text 'PID = [no.]') and the Host is the local PC mentioned, then this is a BUCHI software running and accessing the DB.

Solution:

Close all running BUCHI software, e.g. SepacoreControl on local PC.

7.5 Database restore failed – BUCHI software runs on another PC



Details from the gray box:

```
Database restore FAILED!

Please close all Buchi applications!

Below are the possible open locks listed:

Possible locking processes:

PID = 73, Type = Sch-M, Name = 73, Application = .Net SqlClient Data

Provider, Login = SepacoreControlUser, Host = [remote PC name]
```

In the error message can be checked, if running BUCHI software causes the failed restore. If there are locking processes listed (starting with text 'PID = [no.]') and the Host is not the local PC mentioned, this is a BUCHI software running and accessing the DB remotely.

Solution:

Close all open BUCHI software e.g. SepacoreControl on the remote PC.

7.6 Connect to SQL Server dialog

The button 'Connect' in the main toolbar (refer to chapter 0) opens the connection dialog. It should be set per default to the option 'Use a specific user ID and password (SQL Login)'.

If the BUCHI database manager is not able to connect to your local installed SQL server, activate the last option with the list of default connections for:

- Sepacore Control Default Connection
- don't use: Sepacore Control Default Connection to SQL instance BuchiSqlExp2005

- Sepacore Record Default Connection (SepacoreRecord 1.0 and 1.1)

The connection can be set back to default with this option.

Connect to S	QL Server
Server name	
(local)\BUCH	IISQLEXP2008 Refresh
Authentication	
🔘 Use Wind	dows NT Integrated Security
Use a sp	ecific user ID and password (SQL Login):
	e Connection Buchi.Database.Connection xml
User name:	sa
Password:	
Templates	
Load	Save Services Connect 🎇 Cancel

Use 'Refresh' to fill the list with local and network wide SQL servers

1	It is possible to save a defined connection to a xml file and then load it.
2	Shows the SQL Server Services dialog
3	Tries to connect with above settings and continues
4	This entries depends on the Plugins which provides specific connections with predefines users and passwords

7.7 Check DB

When the software support asks you to check the integrity of the DB, please proceed as follow:

- 1. Delete the existing log, by clicking on icon 'New' in the log and info panel (refer to chapter 3.7)
- 2. Mark the DB to be checked
- 3. Click on 'Check...' in the right panel
- 4. Leave the deep scan unchecked and click on 'OK'

🔒 Check Database	
Check Options	
Check with a deep scan	(Time consuming!)
	OK Cancel

5. Copy the log to a Notepad or Word file and provide it to the BUCHI software support.

Technical Information:

This Check function uses the SQL Server DBCC CHECKDB command.

7.8 Show software accessing the server or DB

This function lists all software accessing the server or DB and locking so the server or DB.

- 1. Select in the tree panel the server or DB
- 2. Click on 'Show Locks' and the accessing software will be displayed in the log and info panel.
- 3. Copy the content to a Notepad or Word file and provide it to the BUCHI software support.

7.9 Start and Stop Windows Services

The dialog BUCHI Service Manager can be opened over the main toolbar, icon 'Services'. This dialog allows to 'Start', 'Restart', 'Stop' and probably if not stoppable 'Kill' a SQL Server service.

Buchi Service N	Nanager	1.000			
Close	Start	Stop	Restart	Kill	
SQL Server Ser	vices				
State	Service Name		Name		Descripti
🔅 🌼 Running	SQL Server (BUCH	IISQLEXPRESS)	MSSQL\$BUCHIS	QLEXPRESS	Provides
🛛 🌼 🍓 Stopped	SQL Server (MSSC	LSERVER)	MSSQLSERVER		Provides
· ·					۱.
Logger	III				4
					•
					4
					4
					4
					4

7.10 Server Messages Window

SQL server messages are shown in this dialog. It is used for error resolving for software support. The contents can be saved to a text file.

```
Server Messages Window
                                                                  83
  🗋 Clear 🛃 Save
 Info: Changed database context to 'Sepacore11'.
                                                                 ٠
 Info: Changed database context to 'Sepacore11'.
 Info: DBCC execution completed. If DBCC printed error
 messages, contact your system administrator.
 Info: Changed database context to 'Sepacore11'.
 Info: Changed database context to 'Sepacore11'.
 Info: Changed database context to 'Sepacore11'.
 Info: Changed database context to 'UnkownDatabase'.
 Info: DBCC execution completed. If DBCC printed error
 messages, contact your system administrator.
 Info: Changed database context to 'UnkownDatabase'.
                                                                 Ξ
 Info: Changed database context to 'UnkownDatabase'.
```

7.11 Unlocker Dialog

Running the Script Runner Dialog or protected scripts needs unlocking. This is done by the Unlocker Dialog. You get the user name and password from the software support.

Unlocker Dialog This function is locker To unlock enter the Please contact Buch to get a the unlock in	user name a ni Support	and paswor	d.	
Unlock Information				
User:				
Password:				
			X Cancel	< ок

If Running Script is locked or unlocked, check the indicator in the status bar:

Locked
Unlocked

Operation Manual Database Manager 1.4

7.12 Running Scripts Dialog

Before using this dialog, the 'Unlock Dialog' appears and the user has to enter a user name and password provided by the software support.

After unlocking it is possible to enter SQL statements into the Script textbox.

SqlScriptRunnerDialog	
😰 Check 🐌 Run ▶ Run with results	0
Script	
select * from sys.databases	*
-	
<	+
▼	
	D 🔒 🗎 🔺
	-
	4
	Close

In the logger windows (yellow background) detail information is shown which can be cleared, saved or copied to the clipboard.

Check	Simulates execution of the script
Run (recommended)	Executes the script, if the script contains any GO, no result data tables are available
Run with results	Forces execution of the script, expecting result data tables and shows them

Below image shows the dialog after executing a script with results. Every result is shown as data table in a separate tab.

Script 🖾 Table					
name	database_id	source_database_id	owner_sid	create_date	
master	1		×	04/08/2003 09:1	
tempdb	2		×	04/20/2011 07:0	
model	3		×	04/08/2003 09:1	
msdb	4		×	10/14/2005 01:5	
Sepacore11	5		×	04/19/2011 15:4	
NIRSolutionArchi	ive004 6		×	09/24/2010 13:0	
Concorn 10	7		Y	n1/01/0011 n0-1 ∳	
Execute Start on 04/20/2011 15:07:07 atementExecuted: select * from sys.databases on 04/20/2011 15:07:07 <* uting the SQL script was successfully. se check the result Tab.					

8 Some basic info about some database functions



9 Change History

Version	Date	Author	Remark
1.00	18.04.2011	BOER	Initial Version
1.00	21.07.2011	SCHR	Finalization for customer
1.00	29.08.2011	NUJO	Add chapter 2.3 and 2.4
1.10	05.12.2011	BOER	Version 1.1 and some more details
1.2	25.02.2013	BOER	Version 1.2
1.3	03.06.2013	BOER	Version 1.3

Table 9-1: Change History

BUCHI Affiliates:

Europe

Switzerland/Austria

BÜCHI Labortechnik AG CH – 9230 Flawil T +41 71 394 63 63 F +41 71 394 65 65 buchi@buchi.com www.buchi.com

Italy

BUCHI Italia s.r.l.

IT – 20010 Cornaredo (MI) T +39 02 824 50 11 F +39 02 575 12 855 italia@buchi.com www.buchi.it

Benelux

BÜCHI Labortechnik GmbH Branch Office Benelux NL – 3342 GT Hendrik-Ido-Ambacht T +31 78 684 94 29 F +31 78 684 94 30

Russia

BUCHI Russia/CIS

benelux@buchi.com

www.buchi.be

Russia 127287 Moscow T +7 495 36 36 495 F +7 495 98 10 520 russia@buchi.com www.buchi.ru

France

BUCHI Sarl FR – 94656 Rungis Cedex T +33 1 56 70 62 50 F +33 1 46 86 00 31 france@buchi.com www.buchi.fr

United Kingdom

BUCHI UK Ltd. GB – Oldham OL9 9QL T +44 161 633 1000 F +44 161 633 1007 uk@buchi.com www.buchi.co.uk

Germany

BÜCHI Labortechnik GmbH

DE – 45127 Essen T +800 414 0 414 0 (Toll Free) T +49 201 747 49 0 F +49 201 747 49 20 deutschland@buchi.com www.buechigmbh.de

Germany

BÜCHI NIR-Online DE – 69190 Walldorf

T +49 6227 73 26 60 F +49 6227 73 26 70 nir-online@buchi.com www.nir-online.de

America

BUCHI Brasil

T +55 19 3849 1201

F +55 19 3849 2907

brasil@buchi.com

www.buchi.com

BR – Valinhos SP 13271-200

Brazil

USA/Canada

BUCHI Corporation US – New Castle, DE 19720 T +1 877 692 8244 (Toll Free) T +1 302 652 3000 F +1 302 652 8777 us-sales@buchi.com www.mybuchi.com

Asia

China

BUCHI China

CN – 200052 Shanghai T +86 21 6280 3366 F +86 21 5230 8821 china@buchi.com www.buchi.com.cn

Korea

BUCHI Korea Inc.

KR – Seoul 153-782 T +82 2 6718 7500 F +82 2 6718 7599 korea@buchi.com www.buchi.kr

India

BUCHI India Private Ltd. IN – Mumbai 400 055 T +91 22 667 75400 F +91 22 667 18986

F +91 22 667 18986 india@buchi.com www.buchi.in

Malaysia

BUCHI Malaysia Sdn. Bhd.

MY – 47301 Petaling Jaya, Selangor T +60 3 7832 0310 F +60 3 7832 0309 malaysia@buchi.com www.buchi.com

Indonesia

PT. BUCHI Indonesia ID – Tangerang 15321 T +62 21 537 62 16 F +62 21 537 62 17 indonesia@buchi.com www.buchi.co.id

Singapore

BUCHI Singapore Pte. Ltd.

SG - Singapore 609919 T +65 6565 1175 F +65 6566 7047 singapore@buchi.com www.buchi.com

Japan

Nihon BUCHI K.K.

JP – Tokyo 110-0008 T +81 3 3821 4777 F +81 3 3821 4555 nihon@buchi.com www.nihon-buchi.jp

Thailand

BUCHI (Thailand) Ltd.

TH – Bangkok 10600 T +66 2 862 08 51 F +66 2 862 08 54 thailand@buchi.com www.buchi.co.th

BUCHI Support Centers:

South East Asia

BUCHI (Thailand) Ltd. TH-Bangkok 10600 T +66 2 862 08 51 F +66 2 862 08 54 bacc@buchi.com www.buchi.com

Middle East

BÜCHI Labortechnik AG UAE – Dubai T +971 4 313 2860 F +971 4 313 2861 middleeast@buchi.com www.buchi.com

Latin America

BUCHI Latinoamérica Ltda. BR – Valinhos SP 13271-200 T +55 19 3849 1201 F +55 19 3849 2907 latinoamerica@buchi.com www.buchi.com

We are represented by more than 100 distribution partners worldwide. Find your local representative at: www.buchi.com