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1 Welcome to DBRepair

1.1 Introduction

Welcome to DBRepair.

This utility is a part of the PhonePad system, and is used to maintain the PhonePad database. The database can be located on a local drive, a network drive or on a remote server. Because it has remote access capabilities, administrators can use DBRepair to repair PhonePad databases across networks, WANs and the Internet.

Important: You will need exclusive access to the PhonePad database while performing many of the functions available in DBRepair. This means that you should ensure all users are logged out before using DBRepair.

2 Getting Started

2.1 Main Window

The main window of DBRepair features menus, a toolbar, a sidebar, a repair log, and a progress pane.

🦣 DBRepair		
<u>File</u> <u>D</u> atabase <u>H</u> elp		
🖪 🖄 🔍 🔮 🥔	' 🖶 🔤 📫 🛈 🧑	
Actions	Repair Log	
	19/12/2009 20:33:04 Checking table version of Sent.dat	-
Backup	19/12/2009 20:33:04 Repair of table Sent started at 19/12/2009 8:33:04 PM	
0	19/12/2009 20:33:04 Repair of table Sent completed at 19/12/2009 8:33:04 PM	
	19/12/2009 20:33:05 Sent.dat was not corrupted.	
Verify	19/12/2009 20:33:05 Checking table version of TimeZones.dat	
	19/12/2009 20:33:05 Repair of table TimeZones started at 19/12/2009 8:33:05 PM	
State Contraction of the second se	19/12/2009 20:33:05 Repair of table TimeZones completed at 19/12/2009 8:33:05 PM	
	19/12/2009 20:33:05 TimeZones.dat was not corrupted.	
Hepar	19/12/2009 20:33:05 Checking table version of Users.dat	
	19/12/2009 20:33:05 Repair of table Users started at 19/12/2009 8:33:05 PM	
1	19/12/2009 20:33:05 Repair of table Users completed at 19/12/2009 8:33:05 PM	
Optimize	19/12/2009 20:33:05 Users.dat was not corrupted.	
	19/12/2009 20:33:05 > Hepairs completed.	
		-
	•	•
	Z Progress	
	Current Operation: Repairs completed.	
	Operation Progress: 100%	
	Overall Progress; 100%	
	L	Local .::

2.2 Menus

The DBRepair menu bar features 3 menus. Many of the menu items are also available from the toolbar and <u>sidebar</u>.

File menu

Clear Log	Clears the repair log and deletes it from disk.
Print Log	Prints the repair log.
Email Log	Emails the repair log to Cybercom Software support.
Exit	Exits DBRepair.
Database menu	
Backup	Runs DBBackup to back up the PhonePad database.
Verify	Checks to see if the PhonePad database contains any corrupted data.
Repair	Repairs the PhonePad database.
Optimize	Removes deleted records and frees up space in the database.

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Additionally, it reorganizes the data so that it can be accessed more efficiently.

Help menu

Contents	Displays online help (which you are now viewing).
Cybercom Software Website	Opens your browser and points it to the Cybercom Software website.
Popup Hints	Enables/disables popup hints on toolbar buttons.
About	Displays information about this application.

2.3 Repair Log

The repair log keeps a record of all actions performed in DBRepair.

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	19/12/2009 20:33:04	Checking table version of Sent.dat	•
	19/12/2009 20:33:04	Repair of table Sent started at 19/12/2009 8:33:04 PM	
	19/12/2009 20:33:04	Repair of table Sent completed at 19/12/2009 8:33:04 PM	
~	19/12/2009 20:33:05	Sent.dat was not corrupted.	
	19/12/2009 20:33:05	Checking table version of TimeZones.dat	
	19/12/2009 20:33:05	Repair of table TimeZones started at 19/12/2009 8:33:05 PM	
	19/12/2009 20:33:05	Repair of table TimeZones completed at 19/12/2009 8:33:05 PM	
~	19/12/2009 20:33:05	TimeZones.dat was not corrupted.	
	19/12/2009 20:33:05	Checking table version of Users.dat	
	19/12/2009 20:33:05	Repair of table Users started at 19/12/2009 8:33:05 PM	
	19/12/2009 20:33:05	Repair of table Users completed at 19/12/2009 8:33:05 PM	
~	19/12/2009 20:33:05	Users.dat was not corrupted.	
1	19/12/2009 20:33:05	> Repairs completed.	
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The log tells you exactly what is happening when you repair the database or execute some other action. If you experience any problems with PhonePad it could valuable information that may be used to resolve them.

2.4 Progress

The Progress pane shows the progress of individual operations and overall progress.

⊠ Progress			
Current Operation:	Repairs completed.		
Operation Progress:	100%		
Overall Progress:	100%		

2.5 Sidebar

The sidebar contains buttons for all of the main functions you will use in DBRepair. Click on the appropriate button to activate that function.

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Eackup
Verify
R epair
Optimize

3 Using DBRepair

3.1 Backing Up the Database

It is strongly recommended that you backup your PhonePad database before executing any of the functions in DBRepair. If your PC or server reboots or crashes while doing a repair, optimization or one of the lengthy functions (but not verify) it could cause data corruption in the database. Better to be safe than sorry.

Running a backup:

- 1. Click on the *Backup* button and click Yes to confirm.
- 2. DBRepair will run DBBackup and perform an automatic backup.
- 3. Once the backup has been completed, DBBackup will shut down.

3.2 Optimizing the Database

Optimization removes empty spaces in the database and reorganizes it to improve performance. It is recommended that the PhonePad database be optimized every 1 to 3 months.

Performing an optimization:

- 1. If you haven't already, do a <u>backup</u> of the PhonePad database.
- 2. Click on the Optimize button and click Yes to confirm.
- 3. Details of the Optimization process will be displayed in the repair log, and the progress bars will indicate the status.

3.3 Repairing the Database

Repair fixes any corruption that may exist in the PhonePad database.

Performing a Repair:

- 1. If you haven't already, do a <u>backup</u> of the PhonePad database.
- 2. Click on the *Repair* button and click Yes to confirm.
- 3. Details of the Repair process will be displayed in the repair log, and the progress bars will indicate the status.

3.4 Verifying the Database

Verifying checks the database for any corruption. If you have a lot of messages stored in PhonePad, it is often quicker to do a Verify rather than a repair. Although Verify will not repair any corruption it will let you know if the database requires repairing.

Performing a Verify:

- 1. Click on the Verify button and click Yes to confirm.
- Details of the verify process will be displayed in the repair log, and the progress bars will indicate the status.

Any problems that were found will be shown at the end of the verification process. In the example below, it was discovered that one of the database tables needs to be repaired.

🔲 Repair Log		
19/12/2009 20:48:41	Verification of table TimeZones started at 19/12/2009 8:48:41 PM	
19/12/2009 20:48:41	Verification of table TimeZones completed at 19/12/2009 8:48:41 PM	
19/12/2009 20:48:41	Verified TimeZones.dat.	
19/12/2009 20:48:41	Verifying Users.dat.	
19/12/2009 20:48:41	Verification of table Users started at 19/12/2009 8:48:41 BM	
19/12/2009 20:48:41	Verification of table Users completed at 19/12/2009 9 48:41 PM	
19/12/2009 20:48:41	Verified Users.dat.	
🐮 19/12/2009 20:48:41	> Verify completed.	
🗙 19/12/2009 20:48:41	The PhonePad database has been verified. There is 1 table that needs to be repaired.	
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If you scroll back through the log, you will be able to find out where the problem is. In our example we can see that the Address Book table needs to be repaired due to a corrupted index. This can easily be fixed using the <u>Repair</u> process.

🔲 Repair Log		
19/12/2009 20:48:36	Verifying AddressBook.dat.	-
19/12/2009 20:48:36	Verification of table AddressBook started at 2/2009 8:48:36 PM	
19/12/2009 20:48:36	Invalid or corrupt text indexing parameters in index	
19/12/2009 20:48:39	Indexes do not match record data and are invalid	
19/12/2009 20:48:39	Verification of table AdvessBook completed at 19/12/2009 8:48:39 PM	
➡ 19/12/2009 20:48:39	AddressBook.dat needs to be repaired.	
19/12/2009 20:48:39	Verifying ArchivedMessages.dat.	
19/12/2009 20:48:39	Verification of table ArchivedMessages started at 19/12/2009 8:48:39 PM	
19/12/2009 20:48:39	Verification of table ArchivedMessages completed at 19/12/2009 8:48:39 PM	
19/12/2009 20:48:39	Verified ArchivedMessages.dat.	
19/12/2009 20:48:39	Verifying ArchivedRecipients.dat.	-

There is no need to perform a backup before running Verify as it is a read-only operation.