## **DB Health Assistant**

Another practical solution from "Practical Compliance Solutions, Corp.".

Installation and Configuration Guide for DB Health Assistant.

Tom Romeo 1/10/2016

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#### 1. Introduction

"DB Health Assistant" is a service that helps to maintain optimal performance of your databases. It can be configured to send alerts if potential issues are discovered.

#### **1.1. System Requirements**

- 1) Internet Access
- 2) Windows XP, 7, 8, Windows Server 2003, 2008, 2012
- 3) Dot Net Framework 3.5

#### 1.2. Installing DB Health Assistant

Download DB Health Assist from our website at <u>www.complianceabc.com</u>

4	PCSDBHealthAssist	.exe Properties	LX.		
	Security General	Details Compatibility	Previous Versions Digital Signatures		
Copyreliable attribution  Digital Signature Details  Digital Signature Details  Digital Signature Information  This digital signature is OK.  Signer information  Name: Practical Compliance Solutions E-mail: support@complianceabc.com  Sinthen time: First attribution to the former of the former o	Signature list Name of signer: Practical Complia Corp.	E-mail address:	Timestamp Friday, January 29, 20 Details	Yo Pi Di Di in	ou will note that CSDBHealthAssist.exe is igitally signed by PCS. If the igital Signature is not intact, lease contact us and DO NOT istall it.
Countersignatures           Name of signer:         E-mail address:         Timester           Symantec Time         Not available         Friday,	iew Certificate mp January 29, Details	ОК	Cancel Apply		









Setup - DB Health Assist	
License Agreement Please read the following important information before continuing.	
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.	You will need to accept the
Practical Compliance Solutions licenses the accompanying software to you only upon the condition that you accept all of the terms contained in this license agreement. Please read the terms carefully before continuing installation, as pressing the "Agree" button will indicate your assent to them. If you do not agree to these terms, please press the "Cancel" button to exit install as Practical Compliance Solutions is unwilling to license the software to you, in	End User License Agreement.
◎ I accept the agreement	
I do not accept the agreement <back next=""> Cancel</back>	

🗇 Setup - DB Health Assist	x
Select Destination Location Where should DB Health Assist be installed?	
Setup will install DB Health Assist into the following folder.	
To continue, click Next. If you would like to select a different folder, click Browse.	You may choose to change the
C: Program Files Practical Compliance Solutions \DBHealthAssist Browse	installation path if you like.
At least 11.2 MB of free disk space is required.	
< Back Next > Cancel	



🍥 Setup - DB Health Assist	
Select Start Menu Folder Where should Setup place the program's shortcuts?	
Setup will create the program's shortcuts in the following Start Menu folder.         To continue, dick Next. If you would like to select a different folder, dick Browse.         DB Health Assist         Browse	You can change the start menu location or select to not create an entry in the start menu.
Don't create a Start Menu folder 	

🔄 Setup - DB Health Assist	1
Select Additional Tasks Which additional tasks should be performed?	
Select the additional tasks you would like Setup to perform while installing DB Health Assist, then click Next.	
Additional icons:	whether you want ICONs created or not.
< Back Next > Cancel	



Setup - DB Health Assist	
Ready to Install Setup is now ready to begin installing DB Health Assist on your computer.	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
C:\Program Files\Practical Compliance Solutions\DBHealthAssist Start Menu folder: DB Health Assist	Just Click Install
< <u>Back</u> Install Cancel	

Setup - DB Health Assist	
Information Please read the following important information before continuing.	
When you are ready to continue with Setup, dick Next.	
Thank you for installing Practical Compliance Solutions' "DB Health Assist".	Click port to complete
The DB Health Assist Console application is used to configure the system to manage your databases.	
A Complete installation guide can be found at our web site:	
You can download the installation guide via this link:	
http://www.complianceabc.com/DBHealth/DBHealthAssist_InstallGuide.pdf	
Purchase your license via this link or from our web site or call.	
https://www.paypal.com/cgi-bin/webscr?cmd= s-	
Next >	





				-	
on Console		_			
			-		DB Health assist console
tion Values Registration Service	e Credentials Restore Database	Purge Data Copy FTP Info		.	consists of four tabs.
			Test Conection		
		•	•		The first tab is to enter
entication 💿 Windows Auth	nentication (current windows login	or run-as credentials)			databasa sradantials
Passwor	rd:	Add Database	Delete Database		ualabase credentials
Database Name	Authentication Type	User ID	Password		The second tab is to configure how the service should behave and to set up alerts
	m				The third tab is to register and license the product
			*		
	tion Values   Registration   Servic rentication   Windows Aut   Passwoi   Database Name	iton Values Registration Service Credentials Restore Database rentication Windows Authentication (current windows login Password: Database Name Authentication Type	iton Values Registration Service Credentials Restore Database Purge Data Copy FTP Info retrication Windows Authentication (current windows login or run es oredentials) Password: Add Database Database Name Authentication Type User ID III	tion Values Registration Service Credentials Restore Database Purge Data Copy FTP Info Test Conection Testication Vindows Adhentication (current windows login or run-as credentials) Password: Add Database Database Database Database Name Authentication Type User ID Password	tion Values Registration Service Credentials Restore Database Purge Data Copy FTP Info Test Conection  rentication Windows Authentication (current windows login or run as credentials) Password:  Database Name Authentication Type User ID Password  III III III III III III III III III



PCS DB Health Assistant Configu Help     Databases to Monitor Service Conf Practical Compliance	ration Console  iguration Values Registration Service Credentials Restore Database Purge Data Copy FTI Solutions	Start here to license the product.
DB Health Assistant f Company: Contact Name: Contact Email:	Pegistration Settings	Enter your company name or individual name if not a company.
Contact Phone:	Get Temporary License     Get License       Save Registration Info     Egt	Enter your full name, email address and phone. Click save and then click get license if you have already paid, or get temporary license if you are just evaluating the
		product.

<ul> <li>PCS DB Health Assistant Configur</li> <li>Help</li> </ul>	ration Console		×	
Databases to Monitor Service Config Practical Compliance DB Health Assistant	guration Values Registration Service Credentials F e Solutions Configuration Settings	leatore Database   Purge Data   Copy FTP Info		Configure the service. Enter SMTP credentials and information to receive repots
SMTP Server:	smtp.live.com			and alerts.
SMTP Port:	587			
SMTP User ID:	•••••	Show		
SMTP Password:	•••••	Show		More detail about this screen
From Email:	myHotmailAccount@hotmail.com			is provided on a later page.
To Email:	mybusinessemail@myCo.com			is provided on a later page.
	V Use SSL V Shrink Transaction Log V F Copy FTP Copy to Azure Blob	Reindex Tables V Perform Backup V Perform DBCC Check DB		
Log Path:	Logs			
Log Level:	Debug   Run Purge Job	avery: 1 - Minutes		
Log Retention:	30 Days			
Database Backup Retention:	8 Days			
Max Size DB Transaction Log:	32 MB- Best to be a binary multiple: 2, 4,	8, 16, 32, 64,		
Start Time:	01:30			
Notification Level:	Errors and Failures	•		
	Test Save Exit			



PCS DB Health Assistant Configuration Console	
Help Databases to Montor: Service Configuration Values: Registration: Service Cedentials: Restore Database: Purge Data Copy FTP Info DBHoathAsset is Currently Stopped Copyon Credentials Copyon Credential	Configure the service via this tab. DB Health Assistant is a windows service that runs even if no one is logged into the PC or Server. The account must have access to the database for this to work. More detail about this screen is provided on a later page.

#### **1.3. Configuring DB Health Assistant**

Before you begin, you should obtain a temporary trial license or an actual license to use the product in production.

Just fill in the information on Tab three and click the save registration info button.

#### 1.3.1. Registering the Product



PCS DB Health Assis	tant Configuration Console	_ 🗆 >
Help		
Databases to Monitor	Service Configuration Values Registration Service Credentials Restore Database Purge Data Copy FTP Info	(
Practical Co	mpliance Solutions	
DB Health A	ssistant Registration Settings	
Company:	Your Company	
Contact Name:	Joseph Owner	
Contact Email:	Joe0wner@YourCompany.com	
Contact Phone:	555-555-5555	
	Laet Temporary License Leet License	
	Save Registration Info	



Click the Get Temporary License button or if you have already purchased a license, click the Get License button.





The Service will not perform any tasks without some license. A temporary license will expire in two week giving you ample time to try the product. A temporary license allows up to three databases to be serviced and allows only a single SQL Server.

A full license allows up to five different SQL Servers and up to 15 different databases.

#### 1.3.2. Configuring alerts, reporting, and level of use

Tab two is used to configure how the product behaves.

🍥 PCS DB Health Assistant Configur	ation Console	
Help		
Databases to Monitor Service Config	uration Values Registration Service Credentials Restore	Database Purge Data Copy FTP Info
Practical Compliance	Solutions	
DB Health Assistant (	Configuration Settings	
SMTP Server:	smtp.live.com	
SMTP Port:	587	
SMTP User ID:	•••••	Show
SMTP Password:	•••••	Show
From Email:	myHotmailAccount@hotmail.com	
To Email:	mybusinessemail@myCo.com	
	☑ Use SSL ☑ Shrink Transaction Log ☑ Reinder	Tables 🛛 Perform Backup 📝 Perform DBCC Check DB
	Copy FTP Copy to Azure Blob	Perform System Info on SQL Server 🛛 Check Missing Indexes
Log Path:	Logs	
Log Level:	Debug   Run Purge Job every:	1 - Minutes
Log Retention:	30 Days	
Database Backup Retention:	8 Days	
Max Size DB Transaction Log:	32 MB- Best to be a binary multiple: 2, 4, 8, 16,	32, 64,
Start Time:	01:30	
Notification Level:	Errors and Failures	
	Test Save Exit	



SMTP Server is the mail server used to drive all emailed alerts.

If you don't have an actual domain with SMTP service, you can use your Hotmail, Gmail, Yahoo, Comcast, FIOS, Optimum Online, or other SMTP service. As of this writing

- 1) Hotmail = smtp.live.com, port 587, SSL = True
- 2) Gmail = smtp.gmail.com, port 587, SSL = True
- 3) Yahoo = smtp.mail.yahoo.com, port 587, SSL = True
- 4) FIOS = outgoing.verizon.net, ports and SSL may vary

The SMTP User ID is your email address that you use to sign on to your email.

The SMTP Password is your email password. You can use the check box to show them just to make sure you've typed them correctly.

Enter your email address in the from email text box.

Enter the email address of the recipient of the reports in the "TO" email text box.

The Log path can be any valid path on your computer. Leaving is as "Logs" places the logs in this directory. "C:\Program Files\Practical Compliance Solutions\DBHealthAssist\Logs"

The check boxes for "Shrink Transaction Log" and "Reindex Tables" indicate whether these actions should take place.

If the "Shrink Transaction Log" check box is checked, then the DB Health Assist service will attempt to shrink the database transaction log to the size specified in the "Max Size of Transaction Log" text box. This occurs after the backup and DB health operations complete and if the service account has sysadmin privileges on the database server.

If the reindex tables check box is checked and the service account is at least dbowner, then fragmented indexes are targeted. If the fragmentation is less than 30% a reorganize is invoked. If the fragmentation is greater than 30% then a reindex rebuild is invoked.

If the reindex tables check box is not checked then the reindexing opportunities are targeted but not acted upon that is no reindexing occurs.

Log retention indicates how many log files are kept.

Database backup retention indicates how many back ups are kept.

Start Time indicates the commencement time of the backup activity.

Run Purge job every "X" minutes is the frequency at which the purge jobs will run. You define the purge jobs at the "Purge Data Tab".

The "Copy", "FTP", and "Copy to Azure Blob" check boxes indicate if those actions should take place or not. If any of the check boxes are checked, then go to the "Copy FTP Info" tab to fil out the destinations.

If copying to Azure Blob Storage, AZCOPY is used. You must install DBHealthassist on the SQL Server and AZCopy must also be installed on the SQL Server.



Notification level has five levels.

#### 1.3.3. Setting up the databases to monitor

Tab one is where the databases to monitor are entered.

Enter the SQL Server name. The FQDN, {Fully Qualified Domain Name} is acceptable as is the server name, server name \ instance or server name [comma] port.

Enter the database name.

Select SQL Authentication or Windows Authentication.

If SQL Authentication is selected then the Login ID and Password are also required.

The Test Connection button is used to verify the ability to connect to the database.

The Add Database button adds the database to the list of databases to monitor.

The Remove Database removes a database from the list of databases to monitor

The Save button saves the list.



SOL server Credes	Service Configuratio	n Values   Registration   Service (	Credentials   Restore Databa	se   Purge Data   Copy FTP Info	
SQL server creder		л <b>ь</b>			<b>T</b> 10 11
Database :					I est Lonection
D'alabaso .	C SOL Author	K Nicetion 💽 Windows Author	ntication fourrent windows los	zin or run as credentials)	
Login ID:		Password:		Add Database	Delete Database
*					
*					
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*					
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*					
* Is Sysadmin - Yes Full Version - Micr	osoft SQL Server 20	) 08 (RTM) - 10.0.1600.22 (Intel×8	6) Jul 9 2008 14:43:34 Cop	vright (c) 1988-2008 Microsoft Corpo	pration Standard Edition
★ Is Sysadmin - Yes Full Version - Micr on Windows NT 5. Database PLS As	osoft SQL Server 20 2 <x86 (build="" 3792)<br="">setTrack - exists</x86>	) 108 (RTM) - 10.0.1600.22 (Intel×86 ): Service Pack 2)	6) Jul 9 2008 14:43:34 Cop	yright (c) 1988-2008 Microsoft Corpo	pration Standard Edition

The trial license allows up to three databases and one SQL Server.

The Full License allows up to 15 databases and three SQL Servers by default, but if you need more databases in your license, please call us.

If using SQL authentication, the service account must have access to all SQL Servers and Databases on this list.

If you have installed the "DB Health Assist" software on the server the runs SQL Server or SQL Express, then it is likely that the "LocalSystem" account has access. However, if the "DB Health Assist" software is installed on a different PC or Server, then use SQL Authentication, or if you need to use Windows authentication, set up a Windows Service account that has proper access to all SQL Servers and databases intended for this application.

Use the service credentials page if you are using Windows Authentication



PCS DB Health Assistant Configuration Console	_ 🗆 X
Help	
Databases to Monitor   Service Configuration Values   Registration [Service Credentials] Restore Database   Purge Data   Copy FTP Info	
DBHealthAssist is Currently Stopped	
Logon Credentials	
C This Account     C This Account	
Account ID:	
Password: Confirm Password:	
Test Connection Save Fxit	
Start Service Stop Service	
	_
	<b>_</b>

#### 1.4. Restoring Databases

The Restore Database Tab provides an easy way to select recently backed up databases and restore them.



CSIDB H	lealth Assis	tant Configur	ration Console	2						_ 🗆
р										
itabases	to Monitor	Service Config	guration Values	Registration	Service Crede	ntials Restore D	atabase Purge D	ata Copy FTP Info		
Databas	se to Restor	e:					•			
Backu	ups of select	ted database -								
	Select	Backup Path	1						Date	
*										
1										ŀ
<u>۱</u>										Þ
<u>ا</u>					_	_			1	Þ
•			_	_	_				1	×
•			_	_	_				1	•
•				_						4
•								Restore		× t

#### 1.5. Purging Old Data

The Purge Data Tab offers an easy way to set up automated SQL scripts to remove old, obsolete, or unwanted data. There are two modes for this operation. You can use the wizard or you can manually create your own delete scripts and enter them into the system.

To use the wizard, click the new purge job button, select a database and table and then enter your criteria as pictured below.

Select the number of rows to delete or accept the default of 1000. This means that each time the purge job runs it will delete up to that many rows. If zero rows are removed, the purge job won't run again until the next day.

Click Save Job and the SQL to perform that purge will appear below. Click the Test SQL button to see if it worked.



Selea - Purg	ct Table: tblAssetTran	nsactions		▼ Number of	rows per delete:	•
-	Column Name	Column Type	Compare Operator	Compare Value	Compare Units	Order
	AssetID	nvarchar	<u> </u>	<u>.</u>		<b>▼ ▼</b>
	TransactionType	nvarchar	<u> </u>	<u>·</u>		<b>▼ ▼</b>
►	TransactionDate	datetimeoffset	Less or Equal	5	Years	<u>▼ 1 </u> ▼
	TransactionID	nvarchar		· _		<u>•</u> •
	TransactionUser	nvarchar	<u> </u>	· ]		<b>▼ ▼</b>
	FromLocationID	nvarchar		·		
	ToLocationID	nvarchar		· ]		<b>- -</b>
	FromUser	nvarchar	•	·		<b>-</b>
	ToUser	nvarchar		<u> </u>		<b>-</b>
	TransStatus	nchar		·		• •
	Mod_User	nvarchar	<u> </u>	·		• •
	Mod_Time	datetimeoffset		·		
set n Dele	nocount off ete top (1000) From tblAsset	Transactions Where	TransactionDate <= DATE	ADD(year, -5, GETDATE())	•	

If you can't get it to run at all, just call us or send an email.

#### 1.6. Removing DB Health Assistant

Ininstall or change a program o uninstall a program, select it from the list and then	ı click "Uninstall", "Change", or "Rep	pair".			Open Control Panel and select "Add Remove Programs" or
rganize 🗵 🔠 Views 👒 🎭 Uninstall				0	"Programs and Features"
*	Publisher	Installed On	Size	*	
stal Reports Basic for Visual Studio 2008 stal Reports Basic Runtime for Visual Studio 2008 ( Health Assist version 1.0.10.08 I) DataSafe Local Backup II) DataSafe Local Backup - Support Software II) Dock (Lotatino, Stated Guida	Business Objects Business Objects Practical Compliance Solutions Dell Dell Dell Dell	6/13/2009 6/13/2009 1/30/2016 5/7/2009 5/7/2009 5/7/2009 5/7/2009	173 MB 64.8 MB 11.0 MB 16.5 GB 1.30 MB		Find DB Health Assist, select it and remove it.
/sta /sta /sta II C II C II C	al Reports Basic for Visual Studio 2008 al Reports Basic Runtime for Visual Studio 2008 ( eath Asist veicola I Datour JataSafe Local Backup JataSafe Local Backup - Support Software Jock Zattion Startad Guida	Publisher           al Reports Basic for Visual Studio 2008         Business Objects           al Reports Basic Runtime for Visual Studio 2008 (         Business Objects           al Reports Basic Runtime for Visual Studio 2008 (         Business Objects           attabastic tection 10.008         Practical Compliance Solutions           PataStel Local Backup - Support Software         Dell           Pold         Dell           Jock         Dell	Publisher         Installed On           Il Reports Basic for Visual Studio 2008         Business Objects         6/13/2009           al Reports Basic Kuntime for Visual Studio 2008 (         Business Objects         6/13/2009           al Reports Basic Kuntime for Visual Studio 2008 (         Business Objects         6/13/2009           ath Asistry tesion 10.00.08         Practical Compliance Solution         13/0/2016           VataSafe Local Backup         Dell         5/7/2009           VataSafe Local Backup - Support Software         Dell         5/7/2009           Joack Stated fuide         Dell         5/7/2009           Dell         5/7/2009         Dell	Publisher         Installed On         Size           Il Reports Baic Cor Visual Studio 2008         Business Objects         6/13/2009         173 MB           al Reports Baic Numme for Visual Studio 2008 ( Business Objects         6/13/2009         173 MB           al Reports Baic Numme for Visual Studio 2008 ( Business Objects         6/13/2009         124 MB           ath Asist visual Studio 2008 ( Business Objects         6/13/2009         110 MB           PataStel Local Backup - Support Software         Dell         5/7/2009         15.5 GB           Potel Statel Coul Backup - Support Software         Dell         5/7/2009         1.30 MB           Potel         5/7/2009         1.30 MB         201         5/7/2009	Publisher         Installed On         Size           Il Reports Basic for Visual Studio 2008         Business Objects         6/13/2009         173 MB           al Reports Basic Runtime for Visual Studio 2008 (m.         Business Objects         6/13/2009         173 MB           al Reports Basic Runtime for Visual Studio 2008 (m.         Business Objects         6/13/2009         1.00 MB           ath Assist veisoria         1/3/02016         1.10.0 MB         Protectal Compliance Solutions         1/3/02016         1.10.0 MB           ataSafe Local Backup - Support Software         Dell         5/7/2009         1.80 MB         Dock           Dock         Dell         5/7/2009         1.30 MB         Dock         Dell         S/7/2009         1.30 MB



Uninstall InitializeUninstall: Uninstall is initializing. Do you really want to start Uninstall?	Answer YES
Yes <u>N</u> o	
DB Health Assist Uninstall  Are you sure you want to completely remove DB Health Assist and all of its components?	Answer Yes
Yes No	

DB Health Assist Uninstall	
DB Health Assist was successfully removed from your computer.	Click OK
ОК	

You can then delete the directory manually. The uninstall process always leaves behind the logs. Also if the shortcut is left behind you can delete it as well.



	511						
Computer + OS (C:) + Program	Files	cal Compliance Solutions				Search	,
File Edit View Tools Help							C
Jorganize • III views • 🐻 burn		<u> </u>					(
Favorite Links		Name  DataBases Logs DBHealthAssist.InstallLog DBHealthAssist.InstallState InstallViLInstallLog	Date modified 1/31/2016 6:35 PM 1/31/2016 6:32 PM 1/30/2016 11:48 AM 1/30/2016 11:48 AM 1/30/2016 11:48 AM	Type File Folder File Folder INSTALLLOG File INSTALLSTATE File INSTALLLOG File	Size 1 KB 5 KB 1 KB		
Folders  Microsoft Visual Studio 9.0  Movie Maker  MSBuild  Cracle  DFractical Compliance Solutions  DBHealthAssist  DBHealthAssist  DHealthAssist  VhatsMyIP  WhereDidMyDisKGo  Reference Assemblies  Synaptics Uninstall Information  Windows Callaboration  Windows Callaboration  Windows Defender  Windows Media Player  Windows Media Player  Windows Media Player  Windows Nedia Player  Windows Photo Gallery  Windows Solalery  Media Bases  Media Bas							
5 items (Disk free space: 26.0 GB)						p Co	mputer

