Advantage Database Server

Basics

The Advantage Database Server (hereinafter ADS) from Sybase is required by PC CADDIE to manage the databases. It regulates exclusive access to the databases, taking into account all file attributes and authorisations (read, write and delete rights).

The ADS server prevents data corruption, i.e. a data record being processed by two parties. This ensures greater stability and, if necessary, better performance.

There are two variants of ADS:

- LOCAL SERVER free of charge as a DLL (ADSLOC32.DLL). For single workstation solutions or in small networks with a maximum of 5 workstations. Working with PC CADDIE via remote desktop connection is not possible with the ADS Local Server.
- REMOTE SERVER available for a fee as a client/server database management system. Required for larger networks (more than five workstations) or RDP access (terminal server). The ADS Remote Server can also be useful in smaller networks. Advantages include faster access. The server-based transaction processing also avoids any database corruptions (e.g. in the event of a client "crash" or network interruptions).

ADS licences are staggered according to the number of users.

The ADS can be used on both 32 and 64 bit versions (Windows).

Installation

- The LOCAL SERVER (ADSLOC32.DLL) is installed automatically with PC CADDIE.
- In local server mode, please note that with Windows Vista/7, Windows Server 2008 and Windows Server 2008 R2, the SMB2 protocol (Server Message Block) must be deactivated or repaired, as it has been proven to damage the PC CADDIE index files. Further information on request.

Macro	×
Enter the macro!	
SMB SMB2 SMB2 Status: Disabled Disable SMB2 Create Reg file	X Qancel

- The installation of the ADS-REMOTE-SERVER must be carried out separately. The licence key (serial) and the validation code must be available for this. You will receive this data from PC CADDIE support after placing your order.
- The ADS must be installed on the PC CADDIE file server, i.e. on the computer (server) on which the PC CADDIE databases are located.
- Administrator rights are required for installation.
- From a Windows 2003 server, either the "Data Execution Prevention" (DEP) in Windows should be deactivated or you should add the *ads.exe* from the ADS programme directory as an exception.

The installation is started via the ADS macro. The menu item **Configuration of the ADS server** menu item automatically loads the current ADS versions recommended for PC CADDIE.

ADS-Konfiguration				\times
Datenbank-Treiber:	ADS Remote Server	•	<u>✓ о</u> к	
DLL Version:	ADS 12.0	-		
			X Abbruch	
Local: P:\PCCADDIE	\USER_1\ (ADS)			
Remote: P:\PCCADDIE	\ (ADS)			
Status: LOCAL SERVE	R			
DLL: 7.10 (Advanta	age 32-bit Client Engine for Wind	ows)		
Grundeinstellungen	Spezielle Anpassungen			
Verbindungs-Versuc	he wiederholen			
Kompression des Da	itenverkehrs			
Prüfung der individu	Jellen Zugriffsrechte			
Properietāres ADS-L	ocking aktivieren			
	0			
Advantage-Manage	ment-Utility	F2		
 Konfiguration des A 	-	F3		
Lizenzkey und Zeich	iensatz des Servers	F4		
A [®] Dfadaiaatallusaaaa b		50		
Pfadeinstellungen b	bearbeiten	F6		
Konfigurations-Date	ei ADS.INI	F7		
-				
Konfigurations-Date	el ADSLOCAL.CFG	F8		
		_		

Select the ADS version that matches your operating system (32/64 bit). For a 64-bit installation, you will be asked to confirm a registration file:

Installationshinweis
Sie werden im Laufe der Installation dazu aufgefordert, die Datei ADS_UNLOCK.REG der Registrierung hinzuzufügen. Bitte bestätigen Sie dies mit JA
Starten X Abbruch

Registrie	erungs-Editor
<u>^</u>	Durch das Hinzufügen von Informationen können Werte unbeabsichtigt geändert oder gelöscht werden, so dass Komponenten nicht mehr richtig funktionieren. Wenn Sie der Quelle von C:\PCCADDIE\UPDATE\ADS\ADS_UNLOCK.reg nicht vertrauen, sollten Sie die Informationen nicht zur Registrierung hinzufügen. Möchten Sie den Vorgang fortsetzen?
	Ja Nein

About the macro **ADS** macro can be used to change the configuration. This may be necessary, for example, if the ADS server is no longer accessible. In this case, you would no longer be able to work with PC CADDIE. If you now change the setting back to ADS Local Server, you have the option of working on 5 workstations.

In the next step, the desired version is requested and the ADS installation programme is started.

ADS-Server installieren	\times
Möchten Sie den ADS-Server laden und installieren?	
Wichtiger Installations-Hinweis: Bitte merken Sie sich diese Einstellung - sie werden vom Installationsprogramm gleich abgefragt:	
=> Für den ANSI-Zeichensatz ASCII wählen!	
=> Für den OEM-Zeichensatz USA wählen!	
Version <u>1</u> 1 (32bit) installieren	
Version <u>1</u> 1 (64bit) installieren	
Version <u>1</u> 2 (32bit) installieren	
Version <u>1</u> 2 (64bit) installieren	
X Nein, Abbruch	

When installing an existing ADS, the ADS version licensed for the customer must be installed. Newer versions require a new licence.

The installation routine starts:

🙀 Advantage Database Server	for Windows x86_64 v10.10 - InstallShield Wizard
1000 B	Welcome to the InstallShield Wizard for Advantage Database Server for Windows x86_64 v10.10
	The InstallShield(R) Wizard will install Advantage Database Server for Windows x86_64 v10.10 on your computer. To continue, click Next.
Sybase ⁻	WARNING: This program is protected by copyright law and international treaties.
	< Back Next > Cancel

Confirm the Sybase licence conditions:

😸 Advantage Database Server for Windows x86_64 v10.10 - InstallShield Wizard 🛛 🔀
License Agreement Please read the following license agreement carefully.
LICENSE AGREEMENT Advantage Database Server
(the "Program")
specific terms at the end of the document, (collectively, the "Agreement") carefully before using the Program. IF YOU DO NOT AGREE TO BE BOUND BY THESE TERMS, YOU MAY NOT USE THE PROGRAM. By downloading, installing, or using the Program in any way, You acknowledge that You have read,
I accept the terms in the license agreement I do not accept the terms in the license agreement
InstallShield < Back Next > Cancel

Specify the installation path for the ADS here:

🙀 Advanta	ge Database Server for Windows x86_64 v10.10 - InstallShield Wizard
	ion Folder
Click Ne:	xt to install to this folder, or click Change to install to a different folder.
Ø	Install Advantage Database Server for Windows x86_64 v10.10 to: C:\Program Files\Advantage 10.10\ Change
InstallShield -	< Back Next > Cancel

Enter the serial number and the validation code here:

Advantage Database Server for Windows x86_64 v10.10 - InstallShield Wizard
Product Information
Enter the Advantage Serial Number, a Validation Code or an Authorization Code (for evaluation), and the optional Replication Code. The Serial Number, Validation Code, and the optional Replication Code can be found on the Advantage Serial Number ID card. Serial Number: 1234567
I have a product validation code
 I have an evaluation Authorization code
Validation Code: ABCDE
Replication Code:
Click the following link to request a 30 day evaluation of Advantage Database Server. http://www.sybase.com/ads10_windows
Cancel < Back Next >

Select Automatic Startup if you want to start the ADS as a system service (recommended):

Advantage Database Server fo	or Windows x86_64 v10.10 - InstallShield Wizard	23
Product Owner		
Enter the name of the Reg	istered Owner of the Advantage Database Server.	
Registered Owner:	Timo Tester	
Automatic services start ev logged in.	ery time the system starts. Manual services can be started by a user once	
	Automatic Startup Manual Startup	
	Cancel < Back Next >]

Please select the character set ASCII:

Advantage Database Server for Windows x86_64 v10.10 - InstallShield Wizard	83
ANSI Character Set	
Please select an ANSI character set to use on the Advantage Database Server.	
WARNING! To prevent data corruption, be sure to use the same character set on all Advantage servers including Advantage Local Server.	
Please note that choosing <default machine="" on=""> uses the installation workstation's character set. versions of Advantage with different character sets share the same file, data corruption can occur.</default>	If
Selecting a specific ANSI language for all Advantage installs (including Local Server) will guarantee the ANSI character sets used by all Advantage applications will be the same.	:
This setting does not apply to tables opened with OEM as the specified character set type, or to Advantage DOS applications.	
ASCII	
Default on Machine: German	
Cancel < Back Next >	

Select the USA as the local character set:

Advantage Database Server for Windows x86_64 v10.10 - InstallShield Wizard
OEM/Localized Character Sets
The following only applies if your Advantage applications use OEM/Localized character sets. Please select Next if your Advantage applications use ANSI character sets only.
The Advantage Database Server supports the following OEM/Localized character sets. Please select the set that matches your Advantage client applications.
Selecting a specific OEM/Localized character set for all Advantage installs (including Local Server) will guarantee the OEM/Localized character sets used by all Advantage applications will be the same.
Use the list box to view the available OEM/Localized Character Sets:
Cancel < Back Next >

The installation is largely completed with the following window.

뤎 Advantage Configuration Utility 🔅 👝 🗉 💌						
Service Up Time: 0 Days 0 Hours 0 Minutes 16 Seconds						
Operations Since Started: 1 STRASE iAnywhere.						
Database Info	Database Info Installation Info Configuration Utility					
		Current	Max Used	Configured	Rejected	
Use	rs:	0	0	25	0	
Connection	ns:	0	0	25	0	
Work Area	as:	0	0	625	0	
Table	es:	0	0	100	0	
Index File	es:	0	0	150	0	
Data Lock	(S)	0	0	1000	0	
Worker Thread	ls:	0	1	32		
Copyright © 1996	201	D		Stop Servi	ce	Exit

You must now select the **Configuration Utility** the **Database Settings** tab as follows:

🖟 Advantage Configuration Utility		⇔ □	
Service Up Time: 0 Days 0 H	Hours 2 Minutes 20	Seconds	
Operations Since Started: 1		Sybase Invivenee.	
Database Info Installation Info Co	nfiguration Utility		
Database Settings File Locations	Communications	Misc. Settings	Language
Number of Connections:	200		
Number of Work Areas:	750		
Number of Tables:	100		
Number of Index Files:	150		
Number of Data Locks:	400		
<u>R</u> estore Defaults	Ca <u>n</u> cel	Apply	
Copyright © 1996-2010	Stop	Service	Exit

Confirm here with **Apply.** The following window must be opened with **Yes** must be confirmed.

Confirm	E S
1	The Advantage Database Server Configuration Registry Key was successfully updated. However, the Advantage Database Server Service must be stopped and restarted in order for the new configuration settings to take effect.
	Do you wish to restart the Advantage Database Server now?
	Yes No

TIP Keep the enclosed "README" file open, the specific settings are stored there.

Configuration in PC CADDIE

In PC CADDIE, the ADS can always be called up with the macro of the same name.

Basic settings

To set up the REMOTE-SERVER, the database driver must be changed to "ADS-REMOTE-SERVER". PC CADDIE makes the necessary settings automatically. These only need to be changed in exceptional cases. Please contact your system administrator or PC CADDIE support for this.

ADS-Konfiguration				\times
<u>D</u> atenbank-Treiber: <u>D</u> LL Version:	ADS Remote Server ADS 7.10	*	✓ <u>O</u> K ★ Abbruch	
Local: C:\PCCADDIE\U Remote: C:\PCCADDIE\(Status: LOCAL SERVER DLL: 7.10 (Advantage	ADS)			
Grundeinstellungen Verbindungs-Versuche w Kompression des Daten Prüfung der individuelle Properietäres ADS-Lock	werkehrs en Zugriffsrechte			
Advantage-Managemer Konfiguration des ADS- Lizenzkey und Zeichens	Servers	F2 F3 F4		
Pfadeinstellungen bear Konfigurations-Datei AD		F6 F7		
Konfigurations-Datei AL	DSLOCAL.CFG	F8		

!

The other functions in this tab should only be used after consultation with PC CADDIE support.

Special customisations

DS-Konfi	guration					×
Datenbank-Treiber:		ADS L	ocal Server	Ŧ		✓ <u>о</u> к
DLL Version:		ADS 7	.10	Ŧ		• _
						X Abbruch
Local:	C:\PCCADDIE\US	ER_1\ (A	(DS)			
<u>R</u> emote:	C:\PCCADDIE\ (Al	DS)				
Status:	LOCAL SERVER					
DLL:	7.10 (Advantage	32-bit C	lient Engine for Windows)			
Grundeinste	ellungen		Spezielle Anpassungen			
Laufwerkst	buchstaben mit Tre	iberfest	legung:			
Immer r	mit ADS:					
Immer mit DBFNTX:						
Serververz	eichnis ersetzen:					
					t	
					_	
-	ngaben sind nur op					
Folgende A Datenbank	-	ptional: <u>l</u> ame:	SERVER			
-	-Server: <u>N</u>					
-	-Server: <u>N</u>	lame:	SERVER			
-	-Server: <u>N</u> If	lame: P: ort:	SERVER 192.168.0.1			

Enter the server name, server IP and port here so that the ADS can be found more quickly by PC CADDIE.

For a terminal server installation, it is important that the local (!), virtual drive letter, which is created by the batch using the SUBST command, is entered in the ADS configuration. **Always with DBFNTX** in the ADS configuration. This is necessary because the local PC CADDIE program directory is started from there and certain, few functions also work there via the database driver (ADS) - however, this would not be found as the SYSTEM account cannot recognise user-related drives.

Customisation for multiple network cards

If several network cards are activated in the server, it is important to bind the ADS server to one of the IP addresses. This is done via a registry entry as follows:

HKEY_L0CAL_MACHINE\SYSTEM\CurrentControlSet\Services\Advantage\Configuration

A new key with the designation LAN_IP_ADDRESS must be created here, in which the IP address to which the server is to be bound is then stored.

Name	Typ	Daten
A (Standard)	REG_SZ	(Wert nicht festgelegt
M ADVANTAGE_ALREADY_RUNNING	REG_DWORD	0+00000000 (0)
#ALLOW_IPC_CONNECTIONS	REG_DWORD	0x00000001 (1)
IN CLIENT, TIMEOUT	REG_DWORD	0x00000078 (120)
COMPRESSION .	REG_SZ	Internet
IN CONNECTIONS	REG_DWORD	0x000000x8 (200)
#DEFS	REG_DWORD	0x00000064 (100)
IN DISABLE_FREE_CONNECTIONS	REG_DWORD	0x00000000 (0)
ERROR_ASSERT_LOGS	REG_SZ	CA,
ERROR_LOG_MAX	REG_DWORD	0x000003e8 (1000)
#FLUSH_FREQUENCY	REG_DWORD	0x000927±0 (600000)
INDEXES	REG_DWORD	0x00000096 (150)
WINTERNET_FORT	REG_DWORD	0,00000000.03
AND PLAD RESS	REG_SZ	192.168.0.2
HILOCKS	REG_DWORD	0x00000114 (500)
R NONEXCLUSIVE_PROPRIETARY_LOCKING	REG_DWORD	0x00000001 (1)
# PWCKETS	REG_DWORD	Qx00000010 (16)
H RECEIVE P PORT	REG_DWORD	0x00001876 (6262)
2 SEMAPHORE	REG_SZ	
SORT_BUFFER	REG_DWORD	0x00002000 (8192)
STAT_DUMP	REG_DWORD	GwG0000000 (0)
E SUPPRESS_MESSAGE_BOXES	REG_DWORD	0x00000000 (0)
THREADS	REG_DWORD	Gv00000000 (0)
IN TPS_LIST_ELEMS	REG_DWORD	0x00000063 (99)
2 TPS_LOGS	REG_SZ	CA.
USE_SEMAPHORE_FILES	REG_DWORD	0x00000000 (0)
IN USER_BUFFER	REG_DWORD	0x00000216 (534)
H WORKAREAS	REG_DWORD	0x000002me (750)