1.1 Datenbankprogramm Oracle für MCIS MDA

1.1.1 Installation von Oracle 9.2.0

Beispielhaft wird die Installation von Oracle Version 9.2.0 beschrieben. Neuere Versionen werden analog installiert.

- CD für Oracle 9i (Version 9.2.0) Standard Edition einlegen
- Installation starten (bzw. wird automatisch gestartet)
- Installations-Setup folgen
- Vorsicht: bei Xeon- Prozessoren gibt es einen bekannten Oracle-Bug:
 - Workaround: Kopiere komplette CD auf tmp- Verzeichnis Suche mit explorer nach Dateien mit Namen **symcjit.dll** und benenne alle um (z.B. auf symcjit.old) Starte dann den Oracle- Installer von tmp- Verzeichnis aus
 - (..\install\win32\setup)
 - Tel-Nr. Oracle-Hotline: 0180 2000170

Bzw. über Internet <u>\\metalink.oracle.com</u> (Registrierung notwendig)

- Installationspfad D:\Oracle\Ora81
- Verfügbare Produkte: Oracle 8i 8.1.7.0.0 auswählen (kein Client, keine Management Infrastructure)
- Installationsart: Benutzerdefiniert / Custom
- Am Besten: Voreinstellungen übernehmen
- Keine Datenbank erzeugen !
- Überblick über installierte Komponenten, Kontrolle ob der Oracle ODBC Treiber mitinstalliert wurde, sonst evtl. nachinstallieren
- Im Anschluss wird der Listener konfiguriert und der Net Service Name vergeben.
- Der Aufruf erfolgt über:
- Programs → Oracle OraHome92 → Configuration and Migration Tools → Net Configuration Assistant

Die folgenden Bilder zeigen das Vorgehen:

Oracle Net Configuration Assistant: We	elcome X
	Welcome to the Oracle Net Configuration Assistant. This tool takes you through the following common configuration steps: Choose the configuration you would like to do: Listener configuration Naming Methods configuration Local Net Service Name configuration Directory Usage Configuration
Cancel Help	Sext Next S

Dracle Net Configuration Assistant: Listener Configuration, Listener		×
	For remote connections to be made to your Oracle database, you must configure a Oracle Net listener. The Oracle Net Configuration Assistant allows you to add, reconfigure, rename or delete a listener. Select what you want to do:	
	@ Add	
K A S	C Reconfigure	
	C Delete	
A CONTRACTOR	C Rename	
Cancel Help	🔇 Back 📃 Next 📎	

Oracle Net Configuration Assistant: Lister	ner Configuration, Listener Name	×
	For remote connections to be made to your Oracle database you must have at least one Oracle Net listener. Enter the name of the listener you want to create: Listener name: USTENER	
Cancel Help	🔇 Back Next 📎	

Oracle Net Configuration Assistant:	Listener Configuration, Select Protocols	
	You can configure the listener to accept connections over one or more protocols. Select which protocols you want to configure for this listener. Keep your configuration as simple as possible by configuring only the protocols you need. Available Protocols TCPS IPC NMP Selected Protocols TCP IPC NMP	
Cancel Help		

Dracle Net Configuration Assistant:	Listener Configuration, TCP/IP Protocol	×
	Which TCP/IP port number should the listener use? The port number selected should not be used by any other software on this computer. Use the standard port number of 1521 Use another port number: 1521	
Cancel Help	Back	
racle Net Configuration Assistant:	Listener Configuration, More Listeners?	×
and the second second		

	Would you like to configure another listener? No Yes
Cancel Help	

Oracle Net Configuration Assistant	: Listener Configuration, More Listeners?	×
	Would you like to configure another listener? No Yes	
Cancel Help	I Back Next S	

Oracle Net Configuration Assistant: Listener Configuration Done	×
Istener configuration complete!	
Cancel Help 🔇 Back Next 📎	

• Abschluß: Installation von Oracle 9i war erfolgreich

Aus Sicherheitsgründen muss dem Listener ein Kennwort gegeben werden. Dies wird folgendermaßen durchgeführt:

Einfügen am Ende der Datei listener.ora in D:\Oracle\Ora81\network\admin:

PASSWORDS_LISTENER = (S5P2R5S2R)

1.1.2 Installation von Oracle 9.2.0 Client Standard

Für den Zugriff auf die Datenbank muß SQL*Net von Oracle installiert werden.

ACHTUNG: Der Net Service muss auch am MDA Server installiert werden !

- Konfiguration von SQLNET über Start->Programme->Ora Home92-> Network Administration -> Net8 Configuration Assistant
 - Database alias : OSFDB
 - Protocol : TCP/IP
 - Protocol : ICP/IP
 Host Name : Server-name
 - Database Instance : OSFDB

Die folgenden Bilder zeigen das Vorgehen:

Oracle Net Configuration Assistant:	Welcome X
	Welcome to the Oracle Net Configuration Assistant. This tool takes you through the following common configuration steps: Choose the configuration you would like to do: C Listener configuration Naming Methods configuration C Directory Usage Configuration
Cancel Help	< <u>B</u>ack <u>Next</u> ≫ <u>Einish</u>

Oracle Net Configuration Assistant:	Net Service Name Configuration	×
	To access an Oracle database, or other service, across the network you use a net service name. The Oracle Net Configuration Assistant allows you to work with net service names resolved using local naming. Select what you want to do:	
Cancel Help		



	For an Oracle8i or later database or service you must provide its service name. An Oracle8i or later database's service name is normally its global database name. Service Name: OSFDB
Cancel Help	I Back Next Deck

ACHTUNG !!!!! Service Name: OSFDB

Oracle Net Configuration Assistant: Ne	t Service Name Configuration, Select Protocols	×
	To communicate with the database across a network, a network protocol is used. Select the protocol used for the database you want to access.	
Cancel Help	🔇 Back Next 📎	

Oracle Net Configuration Assistant: I	Net Service Name Configuration, TCP/IP Protocol	×
Oracle Net Configuration Assistant: I	To communicate with the database using the TCP/IP protocol, the database computer's host name is required. Enter the host name for the computer where the database is located. Host name: pdaservr A TCP/IP port number is also required. In most cases the standard port number of 1521	X
	O Use another port number: 1521	
Cancel Help		

Rechnernamen des Servers eingeben.



Der Test kann zu diesem Zeitpunkt noch nicht durchgeführt werden, da noch keine Datenbank existiert.

Oracle Net Configuration Assistant: Net Servic	e Name Configuration, Net Service Name 🛛 🔀
Cho Net serv ente you Net	ose a name for this net service name. The Oracle Configuration Assistant has defaulted the net ice name to be the same as the service name you red earlier, but you can change it to be any name choose. Service Name: OSFDB
Cancel Help	

ACHTUNG !!!!! Net Service Name: OSFDB

Oracle Net Configuration Assistant: Ne	t Service Name Configuration, Another Net Service Name?	×
	Would you like to configure another net service name? No Yes	
Cancel Help		

Oracle Net Configuration Assistar	it: Net Service Name Configuration Done	×
	Net service name Configuration Complete!	
Cancel Help	_ ⊴ _Back	

Oracle Net Configuration Assistant:	Welcome X
	Welcome to the Oracle Net Configuration Assistant. This tool takes you through the following common configuration steps: Choose the configuration you would like to do: Clistener configuration Naming Methods configuration Local Net Service Name configuration Directory Usage Configuration
Cancel Help	< Back Next ≫) (Einish

1.1.3 OSFDB Datenbank anlegen

Für das Erstellen der Datenbank gibt es zwei Möglichkeiten. Soll die Datenbank mit Standardwerten für Größe der einzelnen Tabellen, Anzahl Rollbacksegmente etc. angelegt werden, so kann dies einfach per Aufruf eines Skripts geschehen. Sollen dagegen einzelne Parameter an die Projektgegebenheiten angepasst werden, so muss dies über Oracle Dienstprogramme geschehen.

Datenbankgenerierung mit Standardwerten über Skript

Sie brauchen nur das mitgelieferte Skript <MDADIR>\MDA\Install**ORACLE_DoAll.bat** ausführen, um die Datenbank mit User OSF, Rollbacksegmenten etc. anzulegen. Für die Datenbank werden hierbei **ca. 20 GByte** Speicherplatz auf der Festplatte benötigt (Laufwerk je nach Angabe während der MDA-Installation siehe Kapitel **Fehler! Verweisquelle konnte nicht gefunden werden.** "**Fehler! Verweisquelle konnte nicht gefunden werden.**"). Dabei werden Protokolldateien *.log im Verzeichnis <MDADIR>\MDA\Data angelegt. Darin können Sie die erfolgreiche Abarbeitung der Skripts kontrollieren.

Das Einrichten der Datenbank dauert etliche Minuten, da Oracle den Speicherplatz für die Datenbank schon zu Beginn vollständig belegt und initialisiert. Im weiteren werden noch die Datenbanktabellen , Indizes und Views angelegt

Hinweis: Das Anlegen der Tabellen und Indizes dauert einige Minuten ! Das Ergebnis wird in <MDADIR>\MDA\Install\Setup.log geschrieben. Dort dürfen nur Fehlermeldungen bezüglich der Drop-Befehle vorkommen (nach "ORA-, suchen).

Datenbankgenerierung mit Datenbank-Konfigurationsassistent

Beim manuellen Erstellen der Datenbank können Sie die Größe der Datenbank, der Tablespaces, Tabellen und Indizes an Ihre Bedürfnisse anpassen. Die nachfolgende Beschreibung zeigt eine beispielhafte Konfiguration. Beachten Sie, dass Sie auch die mitgelieferten Skripts bzgl. der Größenangaben anpassen müssen!

Das manuelle Erstellen der Datenbank erfolgt mit Hilfe des Datenbank-Konfigurationsassistenten: Start \rightarrow Programs \rightarrow Oracle - OraHome92 \rightarrow Configuration and Migration Tools \rightarrow Database Configuration Assistant

Database Configuration Assis	stant : Welcome	IX
	Welcome to Database Configuration Assistant for Oracle database. The Database Configuration Assistant enables you to create a database, configure database options in an existing database, delete a database, and manage database templates.	
Cancel Help	< Back Next >>	

Database Configuration Assista	nt, Step 1 of 8 : Operations	
Database Configuration Assista	At, Step 1 of 8 : Operations Select the operation you want to perform Create a database Configure database options in a database Delete a database Manage Templates	
Cancel Help	(« E	lack Next >>

Database Configuration Assist	ant, Step 2 of	8 : Database Templates	_ 🗆 ×
	Select a temp	late from the following list to create a database:	
	Select	Template Name	Includes Datafiles?
a far the second se	0	Data Warehouse	Yes
	0	General Purpose	Yes
	Q	New Database	No
	0	Transaction Processing	Yes
Hypergediateries Hype			
Cancel Help		S Back	Next >

Database Configuration Assist	ant, Step 3 of 8 : Database	e Identification		
Database Configuration Assist	oal Database Name, typically of the stance which is uniquely identified f n Identifier (SID).	form rom any		
Cancel Help			(Back Next >)	Einish

Database Configuration Assist	ant, Step 4 of 8 : Database Features	
	Database Features Custom Scripts	
	Select the features you want to configure for use in your database:	
and the second second	🗆 Oracle Spatial	
	🗹 Oracle Ultra Search	
	Oracle Label Security	
	🗆 Oracle Data Mining	
	Coracle OLAP	
	🗹 Example Schemas	
	✓ Human Resources	
	Order Entry	
	🗖 Product Media	
	Sales History	
	Shipping	
	Standard database features	
Cancel Help	(⊰ Back Next ≫) Einish	

Database Configuration Assist	tant, Step 5 of 8 : Database Connection Options	. 🗆 🗙
Database Configuration Assist	Select the mode in which you want your database to operate by default : Select the mode in which you want your database to operate by default : Dedicated Server Mode For each client connection the database will allocate a resource dedicated to serving only client. Use this mode when the number of total client connections is expected to be small when clients will be making persistent, long-running requests to the database. Shared Server Mode Several client connections share a database-allocated pool of resources. Use this mode when more than a small number of users need to connect to the database simultaneously while efficiently utilizing system resources. The Oracle shared server feature will be enable Edit Shared Connections Parameters	that or ed.
Cancel Help	Einis	h

Database Configuration Assist	ant, Step 6 of 8 : Initializal	tion Parameters		
	Memory Chara	cter Sets DB Sizing	File Locations Archive	
	C Typical Percentage of physi Database Type: Show distribution C Custom Shared Pool: Buffer Cache: Java Pool: Large Pool:	cal memory (510 MB) for Or of Memory) [48 [24 [32] [8	acle: 70 Data Warehousing M Bytes M Bytes	
Cancel	PGA: Total Memory for Ora Total memo parameters	24 acle: 176 M Bytes ry includes 40MB of Oracle I , if any. ers)	M Bytes Process Size and the defaults for th File Location Va	e empty riables) Finish

Database Configuration Assista	ant, Step 6 of 8 : Initialization Parameters	_ 🗆 🗵
	Memory Character Sets DB Sizing File Locations Archive	
	 Database Character Set C Use the default The default character set for this database is based on the language setting of this operating system: WE8MSWIN1252. C Use Unicode (AL32UTF8) Setting character set to Unicode (AL32UTF8) enables you to store multiple languag groups. C Choose from the list of character sets ZHS16GBK 	e
	National Character Set. AL16UTF16	
	All Initialization Parameters)	bles)
Cancel Help	<u> </u>	ish)

Bei Projekten in Westeuropa muss der Zeichensatz WE8ISO8859P9 mit dem National Character Set AL16UTF16 eingestellt werden.

Bei Projekten mit chinesischen Schriftzeichen in der Datenbank muss der Zeichensatz ZHS16GBK mit dem National Character Set AL16UTF16 eingestellt werden.

Database Configuration Assist	nt, Step 6 of 8 : Initialization Paran	neters	
	Memory Character Sets	DB Sizing File Locations	Archive
	Data block is the smallest unit of a database can be specified only at Block Size: 8	torage for allocation and for I/O. E the database creation time. KBytes v	Data block size of a
	Specify the maximum amount of n value improves efficiency of large	remory that can be used during so sorts.	orting operations. Larger
	Sort Area Size: 524288	Bytes *	
	All Initialization Parameters)		File Location Variables
Cancel Help		🔇 Back	<u>N</u> ext ≫ Einish

Database Configuration Assista	nt, Step 6 of 8 : Initialization P	arameters	
	Memory Character S	ets DB Sizing File Loca	ations
	Initialization Parameters Filer	name: (ORACLE_BASE)\admin rs file (spfile)	((DB_NAME))(pfile)(init.ora
	Persistently stored parame the init.ora file or via ALTEF on the database server sid starting a database.	aters behave much like traditional R SYSTEM or ALTER SESSION. T e, in a binary format, eliminating	I RDBMS parameters set in hese parameters are stored need for local init.ora when
	Server Parameters Filen:	ame: {ORACLE_HOME}\databa	se\spfile(SID).ora
	For User Processes: For Background Process:	{ORACLE_BASE}\admin\{DB_N {ORACLE_BASE}\admin\{DB_N	AME (Nudump
	For Core Dumps:	{ORACLE_BASE}\admin\(DB_N	IAME))cdump
	All Initialization Parameters)	File Location Variables
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Hinweis: Falls die Datenbankdateien in dem Verzeichnis liegen sollen, das während dem MDA-Setup angegeben wurde, müssen Sie hier die Pfade anpassen.

Oracle für MCIS MDA

	Memory Character Sets DB Sizing File Locations Archive
	Specify if you want to run the database in archive log mode.
	C Archive Log Mode
	🖾 Automatic archival
	Log Archive Filename Format: %t_%s.dbf
	It is recommended that archive log files be written to multiple locations spread across
	different disks.
	Archive Log Destination(s)
	{ORACLE_BASE}\oradata\(DB_NAME)\archive
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Storage	General Options Controlfile Mirror Images File Name control01.ctl control02.ctl control03.ctl	s: File Directory {ORACLE_BASE}oradata{(DB_NAME}) {ORACLE_BASE}oradata{(DB_NAME}) {ORACLE_BASE}oradata{(DB_NAME}) {ORACLE_BASE}oradata{(DB_NAME}) {ORACLE_BASE}oradata{(DB_NAME})
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Database Configuration Assistant	t, Step 7 of 8 : Database Storage	_ 🗆 ×
Storage Tablespaces Datafiles Rollback Segments Redo Log Groups	General Options Maximum no. of datafiles: 254 Maximum no. of redo log files: 32 Maximum no. of log members: 3	
(Add Remove)	File Location Varia	bles)
Cancel Help	🦪 Back Next »	nish

Database Configuration	Assistant, Step 7 of 8 : Database S	torage		
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	Automatic
	Objects in the tablespace automatically manage their free space. It offers high performance for free
	C Manual
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🖓 🗀 Rollback Sei	
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	O No - Faster updates, no redo logs generated and not recoverable
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Add Remove	(File Location Variables)
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Database Configuration Assist	ant, Step 7 of 8 : Database Stora	je		
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Control XDB Control Control XDB Control Contro	Status Online Read Only Offline Normal Type Permanent Temporary	y		
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Database Configuration A	ssistant, Step 7 of 8 : Database Storage
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Database Configuration Assista	nt, Step 7 of 8 : Database Storage	2			_ 🗆 ×
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Database Configuration Assistan	it, Step 7 of 8 : Database Storag	e		
Storage Controlfile Tablespaces DRSYS DRSYS EXAMPLE OSFDB_IDX SYSTEM TEMP TOOLS UNDOTBS1 USERS Datafiles Rollback Segments Redo Log Groups	General Storage Name: OSFDB Datafiles File Name Users01.dbf	File Directory (ORACLE_BASE)\o	Size MB	
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Database Configuration /	Assistant, Step 7 of 8 : Database Storage
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Control Contro	 Automatic Automatic Objects in the tablespace automatically manage their free space. It offers high performance for free space manag Manual Objects in the tablespace will manage their free space using free lists. It is provided for backward compatibility. Enable logging Yes - Generates redo logs and recoverable No - Faster updates, no redo logs generated and not recoverable Block Size:
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Database Configuration Ass	istant, Step 7 of 8 : Database	Storage			
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- Constant	Datafiles				
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-4) PDA	🔛 xdb01.dbf	{ORACLE_BASE}\o	20 MB		
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	C Temporary				
	🗌 Set as Default Tempo	rary Tablespace			
	O Undo				
					D
Add Remove				File L	_ocation Variables)
Cancel Help)			🔇 Back 🛛 Next	<u> Einish</u>

Database Configuration /	Assistant, Step 7 of 8 : Database Storage
Controlfile Controlfile Controlfile Controlfile Consys EXAMPLE Consys EXAMPLE Consystem Consyste	General Storage Extent Management: Locally managed Automatic Allocation Uniform Allocation Uniform Allocation Size: KBytes Segment Space Management Automatic Objects in the tablespace automatically manage their free space. It offers high performance for free space manage Objects in the tablespace automatically manage their free space. It offers high performance for free space manage Objects in the tablespace will manage their free space using free lists. It is provided for backward compatibility. Enable logging Yes - Generates redo logs and recoverable No - Faster updates, no redo logs generated and not recoverable Block Size: vestate Block Size: vestate
Add Remove	File Location Variables
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Database Configuration	Assistant, Step 7 of 8 : Database Stora	је	_ _ _ _
EH Storage	Group	Size (1/)	
	1	102400	
Toblocnococ	2	102400	
Datafiloc	3	102400	
Ballhook Poor			
 ∰]3			
	l		
Add Remove			File Location Variables
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Database Configuration Assista	ant, Step 8 of 8 : Creation Options	×
	Select the following database creation options: Create Database Save as a Database Template Name: Create_OSFDB Description:	
	Generate Database Creation Scripts Destination Directory: D:\oracle\admin\OSFDB\scripts Browse	
Cancel Help	Image: Section of the section of	

	Use this ter	eate	eate a cus	stomized d	5 atabase.	
Common Op	otions					
Ontion Name	Selected					
Example Schemas	true					
Dracle Data Mining	false					
Dracle Intermedia	true					
Dracle JVM	true					
Dracle Label Security	false					
Dracle OLAP	false					
Dracle Spatial	false					
Dracle Text	true					
Dracle Ultra Search	true					
Dracle XML DB	true					
Dracle JVM Dracle Label Security Dracle OLAP Dracle Spatial Dracle Text	true false false false true					
	false					
Dracle Text	true					
Dracle Ultra Search	true					
Tracle XML DB	true					

🗊 Database C	onfiguration Assistant 🛛 🗙
	The template "Create_OSFDB" creation completed.
	ОК

Database Configuration Assis	tant
	Creating and starting Oracle instance Creating database files Creating data dictionary views Adding Oracle JVM Adding Oracle Intermedia Adding Oracle Text Adding Oracle Ultra Search Adding Example Schemas Completing Database Creation Database creation in progress
Database Configuration Assis	- ant
Database configuration Assis	ask the leafflee at Dijercele)admin)OREDDiscoste for dataile
Database Information: Global Database Name: System Identifier(SID): Server Parameters Filename:	OSFDB OSFDB D:\oracle\ora92\database\spfileOSFDB.ora
- Change Passwords	
For security reasons, you mus the new database.	t specify a password for the SYS and SYSTEM accounts in
SYS Password:	*****
Confirm SYS Password:	******
SYSTEM Password:	******
Confirm SYSTEM Password	*****
Note: All database accounts e Select the Password Manager manage the database accoun the accounts you will use. Ora passwords immediately after	xcept SYS, SYSTEM, DBSNMP, and SCOTT are locked. nent button to view a complete list of locked accounts or to ts. From the Password Management window, unlock only cle Corporation strongly recommends changing the default unlocking the account.
	Password Management)
	Exit

Kennwort S5P2R5S2R verwenden.

- Hinweis: Bevor Sie die Datenbank zu Ende erzeugen und Tabellen und Indizes anlegen, müssen Sie die mitgelieferten Skripts im Verzeichnis *<MDADIR>WDA\Install* bezüglich der Größenangaben anpassen ! Überprüfen Sie ausgehend von Oracle_Create_Users.bat und Oracle_Create_Tables_Triggers.bat alle aufgerufenen Skripts.
 - Skript starten: <//WDA\Install\Oracle_Create_Users.bat (Es werden die Datenbank Benutzer für MDA angelegt).
 - Skript starten:
 MDADIR>\MDA\Install\Oracle_Create_Tables_Triggers.bat (Erzeugt alle Tabellen, Indizes, Views und Trigger) Hinweis: Das Anlegen der Tabellen und Indizes dauert einige Minuten ! Das Ergebnis wird in </MDADIR>\MDA\Install\Setup.log geschrieben. Dort dürfen nur Fehlermeldungen bezüglich der Drop-Befehle vorkommen (nach "ORA-, suchen).

1.1.4 ORACLE NET und Oracle ODBC-Treiber einrichten

Oracle Net konfigurieren und testen

- Der Service OSFDB wurde bereits während der Oracle Installation (siehe Kapitel 1.1.1 "Installation von Oracle") eingerichtet.
- Test mit tnsping OSFDB (unter D:\Oracle\Ora92\bin) in einer Dos-Box.

Hinweis:

Die Projektierung von Oracle Net ist im Pfad D:\Oracle\Ora92\network\admin in folgenden Dateien projektiert:

listener.ora tnsnames.ora sqlnet.ora

Service OSFDB Default-Domain

ODBC-Treiber installieren und testen

 ODBC Source OSFDB-ODBC einrichten über Start -> Einstellungen -> Systemsteuerung -> ODBC Data Sources (als System Data Source Name Treiber ist Oracle ODBC, Datenbankalias ist OSFDB, Benutzer ist OSF)



Oracle ODBC Driver Config	uration
	04
Data Source Name	OSFDB_ODBC
Description	ODBC Connection to Oracle OSFDB Database Cancel
TNS Service Name	OSFDB Help
User ID	OSF Test Connection
Application Oracle W	orkarounds SQLServer Migration Translation Options
Enable Result Sets	Enable Query Timeout Read-Only Connection
Enable Closing Cursors	Enable Thread Safety SQLGetData Extensions
Batch Autocommit Mode	e Commit only if all statements succeed

Man hat in diesem Dialog die Möglichkeit, die ODBC Verbindung zu Oracle-Datenbank zu testen.

Oracle ODBC Driver Connect	×
<u>S</u> ervice Name	
OSFDB	
<u>U</u> ser Name	OK
OSF	Cancel
<u>P</u> assword	About
xxx	
,	

Das Passwort für den Datenbankuser OSF wird bei der Installation standardmäßig auf 4SF gesetzt.

Testing Connection 🛛 🔀		
Connection successful		
OK		

1.1.5 MDA Daten in die Datenbank kopieren

Aus der mitgelieferten Access-Datenbank OSFDB.mdb muss der Inhalt aller Tabellen in die Oracle-Datenbank kopiert werden.

Hierzu starten Sie das Skript InitDB.bat im Install-Verzeichnis.