

Setting up a CityGRID® database using Oracle 11g

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1. Installation Oracle 11g (database server)

Install Oracle 11g with basic settings. The database must not be a starter database. Uncheck 'Create Starter Database (additional 1482MB)'

<u>∰</u> (Dracle Database 11g Ins	tallation - Select a Product t	o Install		ĸ
S	Select Installation Method			ORACLE 118	
۲	Basic Installation				
	Perform full Oracle Data	base 11g installation with st	andard configuration option	ns requiring minimal input.	
	This option uses file sys	stem for storage, and a single	e password for all databas	e accounts.	
	Oracle Base Location:	C:\app\Administrator		Bro <u>w</u> se	
	Oracle Home Location:	C:\app\Administrator\produc	:t\11.1.0\db_1	Browse)	
		Enterprise Edition (2.00D)			
	Installation lype:			*	
	Create Starter Databa	ase (additional 1482MB)			
	<u>G</u> lobal Database Nai	me: orcl			
	Database Password		<u>C</u> onfirm Passwor	d:	
	This pass	sword is used for the SYS, SYS	EM, SYSMAN, and DBSNMP a	accounts.	
C	Advanced Installati	ion			
	Allows advanced select	ions such as different passw	ords for the SYS, SYSTEM,	SYSMAN, and DBSNMP	
	accounts, database character set, product languages, automated backups, custom installation, and alternative storage options such as Automatic Storage Management				
	alternative storage optio	nis such as Automatic Storag	e wanagement.		
	Heln		Back Next	Install Cancel	
			Enous Flow	inom Cancer	

Fig. 01: basic settings

Oracle Universal Installer: Product-Specific Prerequisite Checks					
Draduct Operific Dramminite Charles		ATABASE 11 8			
Product-Specific Prerequisite Checks					
The Installer verifies that your environment meets all of the minimur configuring the products that you have chosen to install. You must r are flagged with warnings and items that require manual checks. F checks, click the item and review the details in the box at the bottor	m requirements fo manually verify an or details about p n of the window.	or installing and d confirm the items that rerforming these			
Check	Туре	Status			
Checking Network Configuration requirements	Automatic	🔽 User Verified 🤶			
Checking the length of PATH environment variable	Automatic	🔽 Succeeded 🔤			
Checking for sufficient diskspace in TEMP location	Automatic	Succeeded			
1 warnings, 0 requirements to be verified.		Retry Stop			
Problem: The install has detected that the primary IP address of the system is DHCP-assigned. Recommendation: Oracle supports installations on systems with DHCP-assigned IP addresses; However, before you can do this, you must configure the Microsoft LoopBack Adapter to be the primary					
Help Installed Products Back	Next)	Install Cancel			

Fig. 02: basic settings

Please ignore the warning regarding the DHCP error message.

×	Oracle Universal Installer: Summary	
	D A T A B A S E	11 ^g
	Summary	
	Oracle Database 11g 11.1.0.6.0	
	-Source: \\VBOXSVR\Downloads\oracle 11g\database\install\/stage/products.xml	
	–Oracle Base: C:\app\Administrator	
	-Oracle Home: C:\app\Administrator\product\11.1.0\db_1 (OraDb11g_home1)	
	LInstallation Type: Enterprise Edition	
	O-Product Languages	
	-English	
	Lenglish (United Kingdom)	
	Space Requirements	
	C:\ Required 2.91GB (includes 163MB temporary) : Available 31.88GB	
	^{te} >New Installations (132 products)	
	Help Installed Products Back Next Install C	ancel

Fig. 03: summary

After the summary start the installation process with ${\tt Install}.$

🗽 Oracle Universal Installer: Install	
	DATABASE 118
Install	
Installing Oracle Database 11g 11.1.0.6.0	
Installation in progress Setup pending	Ideal Platform for Grid Computing
Configuration pending Extracting files to 'C:\app\Administrator\product\/1.1.0\db_1'.	Low cost servers and storage
44%	Highest availability
Stop installation	Best scalability
You can find the log of this install session at: C:Program Files\Oracle\Inventory\logs\installActions2009-11-03_05-44-10AM.lo;	g
Help (Installed Broducts) Back	Yext Install Cancel

Fig. 04: Installation



Fig. 05: End of installation

After the end of the installation leave the dialog with EXIT.

2. Configure Oracle-Listener

The listener accepts the connections and then addresses the correspondingly addressed database system or its instance behind it. It only has to be set up once per computer.

Start Net Configuration Assistant to create a listener.

Database Confi	🛅 Oracle - OraDb11g_home1 🔹 🕨	m Application Development	•		
- Administration (🛅 Startup 🔹 🕨	📻 Configuration and Migration Tools	Given Administration Assistant for Windows		
Windows	🛅 Sun VirtualBox Guest Additions 🕨	🛅 Integrated Management Tools	Database Configuration Assistant		
	🥖 Internet Explorer	Oracle Installation Products	Database Upgrade Assistant		
	🏐 Outlook Express	🛅 Warehouse Builder	🕨 🛅 Locale Builder		
	💫 Remote Assistance		🗃 🗃 Microsoft ODBC Administrator		
All <u>P</u> rograms ▶	🖮 Snagit 9 🔹 🕨		😴 Net Configuration Assistant		
Log Off 💽 Shut Down					
2) Start 🚱 🏈 🖳 🏠					

Fig. 06: start Net Configuration Assistent.

Oracle Net Configuration A	ssistant: Welcome	×
	Welcome to the Oracle Net Configuration Assistant. This tool will take you through the common configuration steps, listed below. Choose the configuration you would like to do: Listener configuration Naming Methods configuration Local Net Service Name configuration Directory Usage Configuration	
Cancel Help	Seck Next S	

Fig. 07: Listener confguration

Oracle Net Configuration Assistan	t: 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	
	O Reconfigure	
	C Delete	
	O Rename	
Cancel Help	🔇 Back 🛛 Next 📎	

Fig. 08: Add Listener



Fig. 09: define Listener name



Fig.10: select TCP as protocol



Fig. 11: accept standard port

Oracle Net Configuration Assistan	t: Listener Configuration, More Listeners?	×
	Would you like to configure another listener? No Yes	
Cancel Help	<u> </u>	

Fig. 12: no additional listener necessary

Oracle Net Configuration Assistant: Listener Configuration Done	×
Listener configuration complete!	
Cancel Help (<u>Back Next</u>)	

Fig. 13: exit assistant

3. Creating a database

To create a new database, please start the Database Configuration Assistant.



Fig. 14: start Database Configuration Assistant

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

Fig. 15: start Database Configuration Assistant



Fig. 16: create new database

Database Configuration Assist	ant, Step 2 Template database necessar after datal	2 of 15 : Database Templates s that include datafiles contain pre-created databases. They allow in minutes, as opposed to an hour or more. Use templates withou y, such as when you need to change attributes like block size, which base creation.	you to create a new t datafiles only when h cannot be altered
	Select	Template	Includes Datafiles
	9	General Purpose or Transaction Processing	Yes
		Custom Database	No
Happergalation fair Hoppergalation fair Websellergalation fair	0	Data Warehouse	Yes
And Andrew Stranger and Andrew			
			Show Details
Cancel Help		G Back Next	»)

Fig. 17: select General Purpose or Transaction Processing database

Database Configuration Assis	tant, Step 3 of 15 : Databa	se Identification		
	An Oracle database is uni domain". Global Database Name: A database is referenced other instance on this con SID:	quely identified by a Globa TestDB by at least one Oracle insta nputer by an Oracle System TestDB	I Database Name, typically of the form ance which is uniquely identified from n Identifier (SID).	any
Cancel Help			🕜 Back Next »	

Fig. 18: set a database name

	✓ Configure Enterprise Manager		
	C Register with Grid Control for o	entralized management	
	Management Service	No Agents Found	
	Configure Database Control for	r local management	
Thursday and a	Enable Alert Notifications		
Wardtowner	Outgoing Mail (SMTP) Server:		
1 Magazing Kalencian Tang ang Kalencian	Recipient Email Address:		
Notice Statement	Enable Daily Disk Backup to	Recovery Area	
Avrillan Avrillan Montalian Montalian Montalian	Backup Start Time:		
Malay Statistical Annual Malay Statistical Annual Malay Statistical Annual	OS Usemame:		
Koopen Carlo and an	OS Password:		
Cancel) Help)	≪ Back (Next ≫)	

Fig. 19: Set management options as shown in the figure

User Name	Password	Confirm Password
SYS		
SYSTEM		
DBSNMP		
SYSMAN		
T doomota.		
Confirm Password:	*****	

Fig. 20: set a password.

Use the same Administrative Password for all accounts

Database Configuration Assist	ant, Step 6 of 15 : Storage Options	<u>_ ×</u>
	Select the storage mechanism you would like to use for the database. File System Use the File System for Database storage.	
	 Automatic Storage Management (ASM) Automatic Storage Management simplifies database storage administration and database layout for I/O performance. To use this option you must either specify a create an ASM disk group or specify an existing ASM disk group. Raw Devices Raw partitions or volumes can provide the required shared storage for Real Appli Clusters (RAC) databases if you do not use Automatic Storage Management and System is not available. You need to have created one raw device for each datafil and log file you are planning to create in the database. 	optimizes set of disks to cation a Cluster File e, control file,
Vorsal Montgegeneration Record generation Record	Specify Raw Devices Mapping File	
Cancel Help	<u> ⊴ B</u> ack <u>Next</u> ≫	Einish

Fig. 21: use file system as storage mechanism

Database Configuration Assist	ant, Step 7 of 15 : Database File Locations	<u>- 0 ×</u>
	Specify locations for the Database files to be created:	
	Use Database File Locations from Template	
	C Use Common Location for All Database Files	
	Database Files Location:	Browse)
Ny regularian and	C Use Oracle-Managed Files	
Video 22 data data data data data data data d	Database Area:	Browse
1 Magnitzhalamian Videotzhalamian Walauzhalamian Magnitzhalamian	Multiplex Redo Logs and Control Files)	
Average Averag	If you want to specify different locations for any database files, pick any of the a except Oracle-Managed Files and use the Storage page later to customize eau location. If you use Oracle-Managed Files, Oracle automatically generates the	bove options :h file names for
Margan Charles	database files, which can not be changed on the Storage page.	
	File Location	Variables)
Cancel Help	🔇 Back (Next >)	Einish

Fig. 22: use database file location as template .

Database Configuration Assist	tant, Step 8 of 15 : Recovery Confi	iguration	
	Choose the recovery options for th ✓ Specify Flash Recovery Area This is used as the default for required for automatic disk ba the database files and recove and performance.	ne database: all disk based backup and recovery operations, a sed backup using Enterprise Manager. Oracle rec ry files be located on physically different disks for d	nd is also ommends that lata protection
Normalization Descriptions Normalizations Normalizations Normalizations Normalizations	Flash Recovery Area: Flash Recovery Area Size:	(ORACLE_BASE))flash_recovery_ (Brown	se) s 🔻
And	C Enable Archiving	Edit Archive Mode Parameters)	
		File Locati	on Variables)
Cancel Help		<u> </u>	Einish

Fig. 23: check Flash Recovery Area



Fig. 24: no Sample Schemas

Database Configuration Assist	ant, Step 10 of 14 : Initializati	on Parameters		<u>_0×</u>
	Memory Si	zing Charac	ter Sets Connection Mode	
	Typical Memory Size (SGA and F Percentage: Use Automatic Memo	PGA): 409 MB 40 % C	250 MB Show Memory Distribution)	
	C Custom Memory Management SGA Size: PGA Size:	Automatic Shared 1 306 102	Memory Management	
	Total Memory for Oracle	: 409 M Bytes		
	All Initialization Parameters.	.)		
Cancel Help			(⊴ Back <u>Next ≫</u>) (Einish

Fig. 25 accept the suggested initialization parameters.



Fig. 26: turn on Enhanced default 11g security

Database Configuration Assis	stant, Step 12 of 14 : Automatic Maintenance Tasks	
	Oracle Database 11g provides the ability to automatically manage maintenance tasks such a optimizer statistics collection and proactive advisor reports. These tasks are run in a predefine maintenance window and their CPU consumption is throttled to prevent them from interfering normal user work. The default maintenance windows are 10:00 PM - 2:00 AM on weekdays, a weekend long. These defaults can be changed using Enterprise Manager at any time. I Phable automatic maintenance tasks	s ad with nd all
Cancel Help	(sh)

Fig. 27: enable automatic maintenance tasks



Fig. 28: summary

Database Configuration Assista	ant, Step 14 of 14 : Creation Options	
	Select the database creation options: Create Database Save as a Database Template Name: TestDB Description:	
	Generate Database Creation Scripts Destination C:\app\Administrator\admin\TestDB\scripts Directory:	Browse
Cancel Help	🔇 Back 🛛 🖄 ext 🚿	Einish

Fig. 29: create database

Confirmation			×
The following operations will be performe A database called "TestDB" will be crea	ed: ited.		
Database Details:			
General Purp Pr Use this database template to create a transa	DOSE OCES	or Transaction ssing ured database optimized for general purpose or essing usage.	
Common Options	Selected		l
Oracle JVM	true		
Oracle Text	true		
Oracle XML DB	true		
Oracle Multimedia	true		
Oracle OLAP	true		
Oracle Spatial	true		
Oracle Ultra Search	true		
Oracle Label Security	false		J
ОК	Cancel	(Save as an HTML fil	e)

Fig. 30: OK creates the database.

Change Assurance	🗹 Copying database files	
	Creating and starting Oracle instance	
 Reducing the risk and disruption of change 	Completing Database Creation	
Database Replay	Clone database creation in progress	
Analyzer	19%	
	Log files for the current operation are located at: C:\app\Administrator\cfgtoollogs\dbca\TestDB	
	Stop	

Fig. 31: Status bar

Database Configuration Assistant
Database creation complete. For details check the logfiles at: C/tapptAdministrator/cfgtoollogs\dbcatTestDB.
Database Information: Global Database Name: TestDB System Identifier(SID): TestDB Server Parameter Filename: C:\app\Administrator\product\11.1.0\db_1\database\spfileTestDB.ora
The Database Control URL is https://10.0.2.15:1158/em
Management Repository has been placed in secure mode wherein Enterprise Manager data will be encrypted. The encryption key has been placed in the file: C:\app\Administrator\product\11.1.0 \db_1\10.0.2.15_TestDB\sysman\config\emkey.ora. Please ensure this file is backed up as the encrypted data will become unusable if this file is lost.
Note: All database accounts except SYS, SYSTEM, DBSNMP, and SYSMAN are locked. Select the Password Management button to view a complete list of locked accounts or to manage the database accounts(except DBSNMP and SYSMAN). From the Password Management window, unlock only the accounts you will use. Oracle Corporation strongly recommends changing the
default passwords immediately after unlocking the account.
Password Management)

Fig. 32: After the database has been completet, you can leave the dialog with EXIT

4. Oracle Enterprise Manger

The Oracle Enterprise Manager is a web-based, graphical user interface for the administration of an Oracle environment including several databases.

Starting the Oracle Enterprise Manager







Fig. 42: Ignore the security notice based on the https certificate



Create Tablespace

A tablespace in an Oracle database is a logical unit for storing data objects (e.g. tables). A tablespace must consist of at least one and can consist of several data files. It can be enlarged by attaching or enlarging a datafile.

Create a tablespace as follows:

Switch to the Server tab and select Tablespace (Figure 44).

Click the Button Create klicken in the Tablespace menu(Figure 45).

Use TS_CITYMAN as tablespace name (Figure 46). Then create a data file and also enter TS_CITYMAN as the file name. Define start size 1000 MB and automatically expand it by 100MB (Figure 47). All other settings are on default. Create the tablespace with the data file with OK (Figure 48 and 49).

Ø Oracle Enterprise Manager (SYS) - Database Instance.				
ORACLE [®] Enterprise Manager 11 <i>g</i> Database Control				
Database Instance: TestDB				
Home Performance Availability	Server	<u>Schema</u>	Data Movement	Software and Support
Storage Control Files Tablespaces Temporary ablespace Groups Datafiles Rollback Segments Redo Log Groups Archive Logs Migrate to ASM Make Tablespace Locally Managed			Database Co Memory Advisor Automatic Undo Initialization Para View Database F	nfiguration s Management ameters Feature Usage
Statistics Management Automatic Workload Repository AWR Baselines			Resource Ma Getting Started Consumer Group Consumer Group	nager 15 9 Mappings



🏉 Oracle Enl	terprise Mana	ger (SYS) - Tal	blespace:	;					-	s - 🗉 🖶	9 • Page • Sal	fety + T <u>o</u> ols + 🕡	-
ORACI Database	_€' Enterp Control	rise Manag	jer 11 <i>g</i>							<u>Se</u>	etup Preferences	Help Loqout Database	•
Database	Instance: 1	iestDB >									Lo	ogged in As SYS	
Tablesp	aces												
									O	oject Type Ta	ablespace	•	
Searc	h												
Enter a	n object na	me to filter t	he data	that is displ	ayed in your re	sults se	et.						
Object	Name												
	Go												
By defau	It, the search	returns all upp	percase n	natches beginn	ing with the string	g you ent	ered. To run	an exact o	or case-sensi	tive match, doui	ble quote the sear	ch string. You can	
use the v	vildcard symb	or (%) in a dou	ible quot	ta string.									
Selecti	on Mode	Single 💌										Createn	
Edit	View)	Delete Acti	ons Ad	d Datafile	•	Go						0	
		Allocated	Space Used				Allocated Free Space				Extent	Seament	
Select	Name 🛆	Size(MB)	(MB)	Allocated 9	Space Used(%	6)	(MB)	Status	Datafiles	Туре	Management	Management	
۲	<u>SYSAUX</u>	564.5	536.7			95.1	27.8	× .	1	PERMANENT	LOCAL	AUTO	
0	SYSTEM	680.0	678.6			99.8	1.4	×	1	PERMANENT	LOCAL	MANUAL	
0	TEMP	20.0	0.0			0.0	20.0	~	1	TEMPORARY	LOCAL	MANUAL	

Fig. 45: select create tablespaces

🔶 Favorites 🛛 🄏 Oracle Enterprise Man	ager - Create Tablespace	
ORACLE Enterprise Manage Database Control	r 11 g	Setup Preferences Help Logout Database
Database Instance: TestDB > Ta	blespaces >	Logged in As SYS
Create Tablespace		
		Show SQL Cancel OK
General Storage		
* Name TS_CITYMAN		
Extent Management	Туре	Status
Cocally Managed	• Permanent	Read Write
C Dictionary Managed	\square Set as default permanent tablespace	C Read Only
	Encryption Encryption Options	C Offline
	C Temporary	
	Set as default temporary tablespace	
	O Undo	
	Undo Retention Guarantee C Yes © No	
Datafiles		
Use bigfile tablespace		
Tablespace can have only one datafile	with no practical size limit.	Add
Select Name	Directory	Size (MB ₇)
General Storage		
		Show SQL Cancel OK
	Database Setup Preferences Help	Logout
Copyright © 1996, 2007, Oracle. All rights Oracle, JD Edwards, PeopleSoft, and Retek <u>About Oracle Enterprise Manager</u>	reserved. are registered trademarks of Oracle Corporation and/or its affiliate	s. Other names may be trademarks of their respective owners.

Fig. 46: define tablespace name

🖕 Favorites 🔏 Oracle Enterprise Manager - Add Datafile	
Database Control	Setup Preferences Help Logout Database
Database Instance: TestDB > Tablespaces >	Logged in As SYS
Add Datafile	Cancel) Continuen
* File Name TS_CITYMAN	
* File Directory C:\APP\ADMINISTRATOR\ORADATA\TESTDB\	
File Size 1000 MB	
Reuse Existing File	
Storage	
Automatically extend datafile when full (AUTOEXTEND)	
Maximum File Size © Unlimited	
ITIP Changes made on this page will NOT take effect until you click "OK" button on the Tablespace page.	
	Cancel Continue
Database Setup Preferences Help Logout	
Copyright © 1996, 2007, Orade. All rights reserved. Orade, JD Edwards, PeopleSoft, and Retek are registered trademarks of Orade Corporation and/or its affiliates. Other names may b About Oracle Enterprise Manager	e trademarks of their respective owners.

Fig. 47: settings for tablespace – datafile

File Size 1000 MB

Important: Check 'Automatically extend datafile when full (AUTOEXTEND)' Increment by 100 MB

Database Instance: TestDB > T	ablespaces >	Logged in As SYS
Create Tablespace		
		Show SQL Cancel OK
(i) Information		
Modification to the datafile w	ill not take effect until you click "OK" button.	
General Storage		
* Name TS_CITYMAN		
Extent Management	Туре	Status
Cocally Managed	• Permanent	Read Write
C Dictionary Managed	Set as default permanent tablespace	C Read Only
	Encryption Encryption Options	C Offline
	C Temporary	
	Set as default temporary tablespace	
	C Undo	
	Undo Retention Guarantee 🔿 Yes 💿 No	
Datafiles		
Use bigfile tablespace		
Tablespace can have only one datafil	e with no practical size limit.	Add
(Edit)(Remove)		
Select Name	Directory	Size (MB)
• TS CITYMAN	C:\APP\ADMINISTRATOR\ORADATA\TESTDB\	1,000.00
General Storage		

Fig. 48: settings for tablespace – datafile

ples	oaces								_		
								C	bject Type T	ablespace	
Searc	ch										
nter a	in object name	e to filter the	data thi	at is displayed in your res	ults set.						
Object	t Name										
	Go										
y defau	ult, the search re	turns all upperd	ase matc	hes beginning with the string y	ou entered	l. To run an ex	act or ca	se-sensitive	match, double o	uote the search st	ring. You can use
ne wildo	card symbol (%) i	n a double quo	ted string	ŀ							
Select	ion Mode Sin	ale 🔻									Create
Edit											
		loto)			00)						
Lun		lete Actions	Add Di	atafile 💌	Go)						
CEan		lete Actions	Add Da	atafile 🔽 🤇	<u>Go</u>)	Allocated					
		Actions	Add Da Space Used	atafile 👤	GO)	Allocated Free Space				Extent	Segment
Select	Name A	Actions	Add Da Space Used (MB)	atafile 🔽 🤇	60) %)	Allocated Free Space (MB)	Status	Datafiles	Туре	Extent Management	Segment Managemer
elect	Name A	Actions Allocated Size(MB) 564.5	Add Da Space Used (MB) 536.8	atafile 🔽 🤇	Go) %) 95.1	Allocated Free Space (MB) 27.7	Status V	Datafiles	Type PERMANENT	Extent Management LOCAL	Segment Managemer AUTO
Select	Name A	Allocated Size(MB) 564.5 680.0	Add Da Space Used (MB) 536.8 678.6	atafile	G0 %) 95.1 99.8	Allocated Free Space (MB) 27.7 1.4	Status ✓	Datafiles 1	Type Permanent Permanent	Extent Management LOCAL LOCAL	Segment Managemer AUTO MANUAL
elect © O	Name A SYSAUX SYSTEM TEMP	Allocated Size(MB) 564.5 680.0 20.0	Add Da Space Used (MB) 536.8 678.6 0.0	atafile 👤	G0 %) 95.1 99.8 0.0	Allocated Free Space (MB) 27.7 1.4 20.0	Status	Datafiles	Type PERMANENT PERMANENT TEMPORARY	Extent Management LOCAL LOCAL LOCAL	Segment Managemer AUTO MANUAL MANUAL
Select © O O	Name A SYSAUX SYSTEM TEMP TS_CITYMAN	Ations Aliocated Size(MB) 564.5 680.0 20.0 1,000.0	Add Di Space Used (MB) 536.8 678.6 0.0 0.1	atafile	G0 %) 95.1 99.8 0.0 0.0	Allocated Free Space (MB) 27.7 1.4 20.0 999.9	Status	Datafiles	Type PERMANENT PERMANENT TEMPORARY PERMANENT	Extent Management LOCAL LOCAL LOCAL LOCAL	Segment Managemer AUTO MANUAL MANUAL AUTO
elect 0 0 0	Name A SYSAUX SYSTEM TEMP TS_CITYMAN UNDOTBS1	Ations Allocated Size(MB) 564.5 680.0 20.0 1,000.0 40.0	Add Di Space Used (MB) 536.8 678.6 0.0 0.1 8.4	atafile	G0 %) 95.1 99.8 0.0 0.0 21.1	Allocated Free Space (MB) 27.7 1.4 20.0 999.9 31.6	Status	Datafiles	Type PERMANENT PERMANENT TEMPORARY PERMANENT UNDO	Extent Management LOCAL LOCAL LOCAL LOCAL LOCAL	Segment Managemer AUTO MANUAL MANUAL AUTO MANUAL
© 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Name A SYSAUX SYSTEM TEMP TS_CITYMAN UNDOTBS1 USFRS	Allocated Size(MB) 564.5 680.0 20.0 1,000.0 40.0 5.0	Add Di Space Used (MB) 536.8 678.6 0.0 0.1 8.4 0.4	atafile 👤	60 %) 95.1 99.8 0.0 0.0 21.1 8.8	Allocated Free Space (MB) 27.7 1.4 20.0 999.9 31.6 4.6	Status	Datafiles 1 1 1 1 1 1	Type PERMANENT PERMANENT TEMPORARY PERMANENT UNDO PERMANENT	Extent Management LOCAL LOCAL LOCAL LOCAL LOCAL	Segment Managemer AUTO MANUAL MANUAL AUTO MANUAL AUTO

Fig. 49 settings for tablespace - datafile

Create User

Create a new user as follows

- In the Tab Server click Users (Security Users) and create a newUser (e.g. cityman) (Figure 50 und 51).
- Then define a password, default tablespace is TS_CITYMAN, leave temporary tablespace on TEMP (Figure 52).

RACLE Enterprise Manager 11 g		Setup Preferences Help Looput
abase Control		Database
		Logged in As S
tabase Instance: TestDB		
Home Performance Availability	Server Schema Data Movement Sc	ftware and Support
Storage	Database Configuration	Oracle Scheduler
Control Files	Memory Advisors	Jobs
Tablespaces	Automatic Undo Management	Chains
Temporary Tablespace Groups	Initialization Parameters	Schedules
Pollback Cogmonts	view Database Feature Usage	Programs Job Classon
Redo Log Groups		Windows
Archive Logs		Window Groups
Migrate to ASM		Global Attributes
Make Tablespace Locally Managed		Automated Maintenance Tasks
Statistics Management	Resource Manager	Security
Automatic Workload Repository	Getting Started	Users
AWR Baselines	Consumer Groups	Role
	Consumer Group Mappings	Profiles
	Plans	Audit Settings
	Station	Transparent Data Encryption
	51005063	Application Contexts
Query Ontimizer	Change Database	
Manage Optimizer Statistics	Add Instance	
SQL Plan Control	Delete Instance	
Enterprise Manager Administrati	on	
Enterprise Manager Users	Notification Schedule	Blackouts
Related Links		
Access	Advisor Central	Alert History
Alert Log Contents	All Metrics	Baseline Metric Thresholds
Blackouts	EM SQL History	Jobs
Metric and Policy Settings	Metric Collection Errors	Monitoring Configuration
SOL Worksheet	Target Properties	User-Defined Metrics
		<u></u>

Fig. 50: create User.

💪 Oracle En	terprise Manager (SYS) - I	Users - Windows I	internet Explorer				_ _ _ _ _
C	6 https://10.0.2.15:1158	/em/console/databa	se/databaseObjectsSean	💌 😵 Certificate	Error 😽 🗙 🚦	Google	P -
🚖 Favorites	🏉 Oracle Enterprise Man	ager (SYS) - Users					
Database	L€ Enterprise Manage Control	er 11 g				Setup Preferer	Ces Help Loqout Database
Database	Instance: TestDB >						Logged in As SYS
Users							
						Object Type	Jser 💌
Searc	ch						
Enter a	in object name to filter th	e data that is disp	olayed in your results -	set.			
Object	t Name						
	Go						
By defau	it, the search returns all uppe	rcase matches begin	ning with the string you	entered. To run an	exact or case-sensitive	match, double quote the searc	h string. You can use
ule wild.	ard symbol (76) in a double qu	loted soring.					
Select	ion Mode Single 💌						Createn
Edit	View Delete Action	ns Create Like	• G0			Previous 1-25 of	32 💌 <u>Next 7</u> 📎
Select	UserName 🛆	Account Status	Expiration Date	Default Tablespace	Temporary Tablespace	Profile	Created
œ	ANONYMOUS	EXPIRED & LOCKED	03-Nov-2009 06:43:32 PST	SYSAUX	TEMP	DEFAULT	15-Oct-2007 10:36:34 PDT
0	APEX PUBLIC USER	EXPIRED & LOCKED	03-Nov-2009 06:43:32 PST	USERS	TEMP	DEFAULT	15-Oct-2007 11:06:44 PDT
0	CTXSYS	EXPIRED & LOCKED	03-Nov-2009 06:43:32 PST	SYSAUX	TEMP	DEFAULT	15-Oct-2007 10:35:40 PDT
0	DBSNMP	OPEN	02-May-2010 06:44:23 PDT	SYSAUX	TEMP	MONITORING_PROFILE	15-Oct-2007 10:23:30 PDT
0	DIP	EXPIRED &		USERS	TEMP	DEFAULT	15-Oct-2007

Fig. 51: create User

🖉 Oracle Enterprise Manager - Create User - Windows Internet Explorer	
🚱 🕘 💌 🖉 https://10.0.2.15:1158/em/console/database/security/user?event=c 🔽 😵 Certificate Error 🛛 😽 🗶 😫 Google	ρ.
🔆 Favorites 🛛 🏉 Orade Enterprise Manager - Create User	
ORACLE Enterprise Manager 11 g Setup Professors Hele Locout Database Control Database	×
Database Instance: TestDB > Users > Logged in As S	YS
Create User	_ 0
(Show SQL) (Cancel) (OK	
General Roles System Privileges Object Privileges Quotas Consumer Group Privileges Proxy Users	
+ Nama Filiyman	
*Enter Password	
* Confirm Password	
For Password choice, the role is authorized via password.	
L Expire Password now	
Default Tablespace TS_CITYMAN	
Temporary Tablespace TEMP	
Status O Locked O Unlocked	
General Roles System Privileges Object Privileges Quotas Consumer Group Privileges Proxy Users	
(Show SQL) (Cancel) (OK	0
Database Setur Preferences Help Logout	
Copyright (0 1996, 2007, Oracle, All rights reserved.	
Oracle, JD Edwards, PeopleSoft, and Retek are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.	
	~[

Fig. 52: create User

Set privileges

Permissions must be set so that the created user can perform certain actions.

Set permissions as follows:

- Edit the created user to add more roles (Figure 53 and 54)
- ✤ In addition to the CONNECT role, the created user also receive the roles DBA, EXP_FULL_DATABASE and IMP_FULL_DATABASE (Figure 55).

/orites	Cracle Enterprise Mar	nager (SYS) - Users					
2AC abase	L€ Enterprise Manage e Control	er 11 <i>g</i>				Setup Prefere	nces Help Loqout Database
base	Instance: TestDB >						Logged in As SY
ers							
						Object Type	User
ear	ch						
nter a	an object name to filter th	e data that is dis	played in your results	set.			
Objec	t Name						
	Go						
defa	ult, the search returns all uppe	ercase matches begin	nning with the string you	entered. To run an e	exact or case-sensitive	match, double quote the searc	ch string. You can use
e wild	card symbol (%) in a double qu	loted string.					
Selec	tion Mode Single 💌						Create
Selec Edi	tion Mode Single 💌	ns Create Like	GO			S Previous 1-25 o	Create f 33 vext 8 6
Selec (Edi elec	tion Mode Single t) View Delete Action t UserName	ns Create Like	Go Expiration Date	Default Tablespace	Temporary Tablespace	Previous 1-25 o	Create f 33 v <u>Next 8</u> (Created
Gelect (Edi C	tion Mode Single t) View Delete Action UserName ANONYMOUS	Create Like Account Status EXPIRED & LOCKED	Go Expiration Date 03-Nov-2009 06:43:32 PST	Default Tablespace	Temporary Tablespace	 Previous 1-25 o Profile DEFAULT 	Create f 33 • Next 8 (Created 15-Oct-2007 10:36:34 PDT
Eelec Edi	tion Mode Single t) View) Delete Action t UserName ANONYMOUS APEX PUBLIC USER	Create Like Account Status EXPIRED & LOCKED EXPIRED & LOCKED	 ▼ Go Expiration Date 03-Nov-2009 06:43:32 PST 06:43:32 PST 	Default Tablespace SYSAUX USERS	Temporary Tablespace TEMP TEMP	O Previous 1-25 o Profile DEFAULT DEFAULT	Create f 33 Next 8 C Created 15-Oct-2007 10:36:34 PDT 15-Oct-2007 11:06:44 PDT
Celect Celect C	tion Mode Single Y L View Delete Action t UserName A ANONYMOUS APEX PUBLIC USER CITYMAN	Create Like Account Status EXPIRED & LOCKED EXPIRED & LOCKED OPEN	Go Expiration Date 03-Nov-2009 06:43:32 PST 03-Nov-2009 06:43:32 PST 03-Nav-2009 06:43:32 PST 03-Nav-2010 00:14:51 PDT	Default Tablespace	Temporary Tablespace TEMP TEMP TEMP	Previous 1-25 o Profile DEFAULT DEFAULT DEFAULT	Create f 33 Next 8 C Created 15-Oct-2007 10:36:34 PDT 15-Oct-2007 11:06:44 PDT 04-Nov-2009 00:14:51 PST
C C C C C C C C C C C C C C C C C C C	tion Mode Single L View Delete Action t UserName A ANONYMOUS APEX PUBLIC USER CTYMAA CTYMAA CTXSYS	ns Create Like Account Status EVPIRED & LOCKED EVPIRED & LOCKED OPEN EXPIRED & LOCKED	Go Expiration Date 03-Nov-2009 06:43:32 PST 03-Nov-2009 06:43:32 PST 03-May-2010 00:14:51 PDT 03-May-2010 06:43:32 PST 06:43:32 PST	Default Tablespace SYSAUX USERS TS_CITYMAN SYSAUX	Temporary Tablespace TEMP TEMP TEMP TEMP	Previous 1-25 o Profile DEFAULT DEFAULT DEFAULT DEFAULT	Create f 33 Next 8 C Created 15-Oct-2007 11:06:34 PDT 15-Oct-2007 11:06:44 PDT 04-Nov-2009 00:14:51 PST 15-Oct-2007 10:35:40 PDT
Edi Edi C	tion Mode Single L View Delete Action USerName A ANONYMOUS APEX PUBLIC USER CITYMAN CTXSYS DBSNMP	Create Like Account Status EXPIRED & LOCKED EXPIRED & LOCKED OPEN EXPIRED & LOCKED	▼ Go Expiration Date O3-Nov-2009 06:43:32 PST 03-May-2010 06:43:32 PST 03-May-2010 06:43:32 PST 03-May-2010 06:43:32 PST 03-May-2019 06:43:32 PST 03-May-2010 06:43:32 PST 03-Nov-2009 06:43:32 PST 03-Nov-2019 06:43:32 PST 02-May-2010 06:44:23 PDT 05:44:23 PDT	Pefault Tablespace SYSAUX USERS TS_CITYMAN SYSAUX SYSAUX	Temporary Tablespace TEMP TEMP TEMP TEMP TEMP	Previous 1-25 o Profile DEFAULT DEFAULT DEFAULT DEFAULT MONITORING_PROFILE	Create f 33 V Next 8 © Created 15-0ct-2007 10:36:34 PDT 15-0ct-2007 11:06:44 PDT 04-Nov-2009 00:14:51 PST 15-0ct-2007 10:35:30 PDT 15-0ct-2007 10:23:30 PDT
Select Cedi Select O O O O	tion Mode Single Y t View Delete Action t UserName A ANONYMOUS APEX PUBLIC USER CITYMAN CTXSYS DBSNMP DIP	ANS Create Like Account Status EXPIRED & LOCKED EXPIRED & LOCKED OPEN EXPIRED & LOCKED OPEN EXPIRED & LOCKED	▼ 00 Expiration Date 03-Nov-2009 06:43:32 PST 03-Nov-2009 06:43:32 PST 03-Nov-2009 00:14:51 PDT 03-Nov-2009 06:43:32 PST 03-Nov-2009 06:43:32 PST 03-Nov-2009 06:43:32 PST 03-Nov-2009 06:44:23 PDT 06:44:23 PDT	Pefault Tablespace SYSAUX USERS TS_CITYMAN SYSAUX SYSAUX USERS	Temporary Tablespace TEMP TEMP TEMP TEMP TEMP TEMP TEMP TEMP TEMP	Previous 1-25 o Profile DEFAULT DEFAULT DEFAULT DEFAULT MONITORING_PROFILE DEFAULT	Create f 33 V Next 8 © Created 15-Oct-2007 10:36:34 PDT 15-Oct-2007 11:36:44 PDT 04-Nov-2009 00:14:51 PST 15-Oct-2007 10:23:30 PDT 15-Oct-2007 10:23:30 PDT 15-Oct-2007 10:11:17 PDT

Fig. 53: edit user to set privileges

	• Users >					Logged in As S
it User: CITYMAN						
			Acti	ions Create Like 💌	Go	Show SQL Revert Apply
General Roles S	ystem Privileges	Object Privileges	Quotas	Consumer Group Privile	ges <u>Pro</u>	oxy Users
						Edit Lis
le			Admin Op	otion		Default
NNECT						
General Roles S	ystem Privileges	Object Privileges	Quotas	Consumer Group Privile	ges Pro	oxy Users
yright © 1996, 2007, Oracle. All cle, JD Edwards, PeopleSoft, and but Oracle Enterprise Manag	ights reserved. Retek are registered <u>er</u>	Database Setup	<u>Preferen</u>	<u>ces</u> <u>Help</u> <u>Logout</u> r its affiliates. Other names m	ay be tradem	arks of their respective owners.





Fig. 55: assign privileges

5. Set up the service

In the Welcome window of the Oracle net configuration assistant, select *Local Net Service Name* configuration and click Next.

Oracle Net-Konfigurationsass	istent: Konfiguration von Net Service Name	<u> </u>				
	Mit Net Services Names können Sie netzwerkübergreifend auf Oracle-Datenbanken oder andere Dienste zugreifen. Mit dem Oracle Net-Konfigurationsassistenten können Sie mit Local Naming aufgelöste Net Service Names benutzen.					
	Wählen Sie die auszuführenden Schritte:					
,	Hinzufügen					
	O Neu konfigurieren					
	O Löschen					
Series States	OUmbenennen					
OTesten						
Abbrechen Hilfe <u>Zurück</u> Weiter »						

Fig. 63: add service

Oracle Net-Konfigurationsassis	stent: Konfiguration von Net Service	Name, Service-Name					
Jede Oracle-Datenbank bzw. jeder Datenbankdienst hat einen Service-Namen. Der Service-Name einer Oracle- Datenbank besteht normalerweise aus dem globalen Datenbanknamen. Geben Sie den Service-Namen der Datenbank oder des anderen Dienstes ein, auf die bzw. den Sie zugreifen möchten.							
	Service-Name:	orapro					
Abbrechen Hilfe	<u> </u>	<u>W</u> eiter ≫					

Fig. 64: Enter the service name. The service name of an Oracle database usually consists of the global database name. Enter the database name that you created earlier (Chapter 3, Figure 18).







Fig. 66: Enter the host name of the database computer here.





	modi Vice vice vice vice vice vice vice vice v	-
Oracle Net-Konfigurationsass	istent: Konfiguration von Net Service Name, Anmeldung	
Name		
👪 doc		
🍺 inst	wanen, wanrend der	
📕 resp	Details:	
Anmeldung ändern X	Verbindung wird hergestelltTest erfolgreich.	
- Anmeldung ändern		
Benutzername: cityman		
Kennwort:		
OK Abbrechen	Anmeldung ändern	
Abbrachan	e 3 Zurñek Weiter %	-

Fig. 68: The login data can be changed when logging into the database. Enter the user created above (Chapter 5c, Figure 52). By default, Oracle tries to log in with the standard user scott and password tiger.





_		_
	acle Net-Konfigurationsassistent: Konfiguration von Net Service Name, Weiteren Net Service 🔀	J
c t g u l	Möchten Sie einen weiteren Net Service Name konfigurieren? Nein Ja	
	Abbrechen Hilfe 🔇 Zurück Weiter »	

Fig. 70: If desired, additional net service names can be set up



Fig. 71: end configuration

6. Create CityGRID® tables

The SQL files, which are delivered with the license are necessary for the creation of the

CityGRID® tables in the database. After successfully logging into the Oracle database, the

user can have these tables created as follows:

IMPORTANT: It is necessary to specify the Texture directory either before or after you create the tables. Otherwise you will run into an error when trying to texture your models.

Before creating tables:

Open the Defaults.sql with Notepad++ and replace 'TODO' in Line 2 with your desired directory, so it would look something like this: insert into INST_INFO (SCHEMA_VERSION, TEXTURE_PATH) values (4.2,C:\MYTEXTUREPATH\); save it and close.

After creating tables: (See chapter 8)

update INST_INFO set TEXTURE_PATH='\\my\texturepath';

commit;

- Open the Windows console window.
- Change to the supplied '<Script directory> / create' with "cd".

```
cd C:\YourDirectory\Create
```

 First test the login to the database via sqlplus. To do this, enter the following command in the command line window:

sqlplus <user>/<password>@<database name>

If the login is successful in this way, write

@create schema.sql

The tables will be created.

If you already have exited sqlplus before creating the table you can use this command: sqlplus <user>/<password>@<databasename.hostname> @create schema.sql



Fig. 56: command for creating CityGRID® tables

7. Installation Oracle Client (Client computer)

When installing Oracle Client, please select the Administrator. In addition to the basic client software, the administration tools, the management console, ie network services and utilities are installed.

If everything is installed on one computer and different versions are used for the server or client, Oracle Base must be set differently on the client than on the server!



Fig. 57: Installation of Client-Administrator

👙 Oracle Client-Installationsprogram	m - Client wird eingerichtet - Schritt 2 von 7	Danie Contant	
Produktsprachen wählen	در		DRACLE 118
Installationsart auswählen Produktsprachen wählen Installationsverzeichnis angeben Voraussetzungsprüfungen ausfül Überblick Produkt installieren Beenden	Wählen Sie die Sprachen, in denen Ihr Produkt Verfügbare Sprachen: Arabisch Bengalisch Bulgarisch Dänisch Englisch (Großbritannien) Estrisch Finnisch Französisch (Kanada) Griechisch Hebräisch Indonesisch Isländlisch Isländlisch Katalanisch Koreanisch Kroatisch Kroatisch	ausgeführt werden soll. Gewählte Sprache Deutsch Englisch	an:
		Zurück Meiters	Fertin stellen

Fig. 58: Selected languages: german, english

2	0 娄	racle Client-Installationsprogram	m - Client wird ein	ingerichtet - Schritt 3 von 7
	Ins	tallationsverzeichnis ang	eben	
th ch	4	Installationsart auswählen Produktsprachen wählen	Geben Sie einen konfigurationsbe:	n Oracle Base-Verzeichnispfad an, in den alle Oracle-Softwaredateien und ezogenen Dateien gespeichert werden. Dieser Speicherort ist das Oracle Base-Verzeichnis.
		Installationsverzeichnis anget	<u>O</u> racle Base: N	N:101_Oracle Durchsuchen
	🖕	Voraussetzungsprüfungen ausfült		
	Ý	Überblick	Geben Sie einen	n Speicherort zur Speicherung von Oracle-Softwaredateien an. Dieser Speicherort ist das
1	Ý	Produkt installieren	Oracle-Standard	averzeichnis.
	់	Beenden	<u>S</u> oftwareverzeic	chnis: N:101_Oracle1product111.2.01client_1
PV.				
1				
n				
ei	•			
S		Hilfe		< Zurück Weiter > Eerlig stellen Abbrechen

Fig. 59: Installation directory

🖉 🎂 Oracle Client-Installatio	nsprogramm - Client wird eingerichtet - Schritt 5 von 7
Überblick	
 Installationsart auswäh Produktsprachen wähle Installationsverzeichnis Voraussetzungsprüfun Überblick Produkt installieren Beenden 	en n angeben gen ausfült B Oracle Client-Installationsprogramm C Globale Einstellungen - Speicherpitz: 1,04 GB erforderlich, 191,29 GB verfügbar - Guellspeicherpitz: 1,04 GB erforderlich, 191,29 GB verfügbar - Guellspeicherpitz: 1,04 GB erforderlich, 191,29 GB verfügbar - Guellspeicherort: \u00fcurmestallu.istage\u00fc - Installationstyp: Administrator - Oracle Base: N:\01_Oracle - Oracle Home-Verzeichnis: N:\01_Oracle\u00fcproduct\11.2.0\u00fclient_1
0	Antwortdatei speichern
Hilfe	< Zurück Weiter > Eertig stellen Abbrechen

Fig. 60: Overview

	Summ	
👙 Oracle Client-Installationsprogram	n - Client wird eingerichtet - Schritt 6 von 7	
Produkt installieren		ORACLE 118
Installationsart auswählen Produktsprachen wählen Installationsverzeichnis angeben Voraussetzungsprüfungen ausfül	Fortschritt 75% Oracle RAC Required Support Files-HAS 11.2.0.1.0 ' wird eingeric	htet
Produkt installieren	Status	In Beerheitung
Beenden	Vorbereiten Osteien kopieren Setup-Dateien Configuration	Erfolgreich Erfolgreich In Bearbeitung Ausstehend
		Details Wiederholen Überspringen
◀	ORACLE 118 DATABASE Storage Management	Manage More Data Compress Data Access Data Faster
Hilfe	< <u>∠</u> urück <u>V</u> eit	ter > Eertig stellen Abbrechen

Fig. 61: Installation process

p Oracle Client-Installationsprogram	m - Client wird eingerichtet - Schritt 7 von 7
Beenden	
K Installationsart auswählen	Installation von Oracle Client wurde erfolgreich ausgeführt.
Produktsprachen wählen	
 Installationsverzeichnis angeben 	
 Voraussetzungsprüfungen ausfült 	
Überblick	
Produkt installieren	
Beenden	

Fig. 62: complete installation

8. Log into database with CityGRID $\ensuremath{\mathbb{R}}$ Administrator

Start CityGRID® Administrator and select File ->Connect database



- When the dialog opens, select 'Oracle OLEDB' as Provider
- Fill in the login data according to your previous installation inputs.

	人 Database Connect	ion		\times	
🙏 U	Provider:	Oracle OLE	DB	•	
CityGI	Service name: User: Password: Scheme:	TestDB cityman ****** CITYMAN			
	Conne	ct	Close		
Copyright © 200 UVM Systems G	01 - 2020 ambH			Databa	ase Connection: •
not vet connected					

- After 'clicking Connect' you might be prompted to update the database schema. Accept by clicking Yes
- Also, you might be prompted to optimize your Database. Accept, by clicking Yes.

ile	Conversion	Import	Export	Administration	Database	Settings	Info		
		🙏 Data	base Con	inection				×	
1	⊾ U		Provid	er: Oracle OLEI	DB			•	
		Databa	ase Optim	nization recomme	nded			×	
C	City GI	The 'recor For t the c	materializ mmended hat the or database r	ed views' of the d to regenerate the wner of the schem must log in.	atabase arer :m. 1a with privil	n't fresh or eges for scl	don't exis hema upc	st. It is Jate in	-
		Do yo	ou want t	o start the databa	se optimizat	ion?			
	Convight © 0				Ja	<u>N</u> ein	Abi	brechen	
	UVM Systems	GmbH						Database	Connection:

You will be prompted to login as owner. Type in your password again and click 'Connect'

Cityokib Admin	istrator (x	(04)					_		~
ile Conversion	Import	Export	Administration	Database	Settings	Info			
	🙏 Datał	base Conr	rection				×		
≜ u		Provide	ات: Oracle OLEI	DB		•	-		
	Serv	r de nany Use	After 0:1 min at 1 successf	10:16 at 20. ully finishe	.04.2020 d.				
City	1	F W	indow Close	Sh	now Log				
20:		Schem	e: CITYMAN					. And	
		Cor	nnect]	Close				
Copyright © 20 UVM Systems G	01 - 2020 3mbH			- 142 " - 141 2444 - 142 2444			Tirsa Databas	e Connec	tion:

- Close the logging window and again, go to File->Connect database and fill in your login data.
- ✤ After successful connection to your new database, open the Settings Tab.
- If you haven't changed the texture path actively in your Defaults.sql you will see these
 Settings:

🙏 CityGRID Administrator (x64)	– 🗆 X
File Conversion Import Export Administration Database	Settings Info X
Log Path: C:\Users\igr\AppData\Roaming\Ci	ityGrid\
Log file: C:\Users\igr\AppData\Roaming\Ci	tityGrid\\Administra Open R
Parameter: C:\Program Files\Common Files\Ci	CityGRID\Settings\I Open
DTD: C:\Program Files\Common Files\Ci	CityGRID\Settings\
Texture folder: TODO	
🗆 Debug 🔽 Disp	play
Save	Cancel
UVM Systems GmbH	Database Connection: •

The Texture folder is not defined and you will not be able to change it within this dialog. Therefore, open the Windows Console window and login to sqlplus (see chapter 5)

Use the following command to change your texture path		
update INST_INFO set TEXTURE_PATH='\\my\texturepath';		
commit;		
(instead of \\my\texturepath use your desired Texture directory)		
Check the updated table with		
Select * from INST_INFO;		

Check the Settings in CityGRID[®] Administrator. If the Texture folder matches your input above, you are ready to use your database. (See CityGRID[®] Administrator Manual for extensive help)

🙏 CityGRID Administrator	(x64)		_	\times
File Conversion Import	Export Administration	Database Settings Info		×
Log Path:	C:\Users\igr\AppData\Ro	aming\CityGrid\		
Log file:	C:\Users\igr\AppData\Roaming\CityGrid\\Administra		Open	R
Parameter:	C:\Program Files\Common Files\CityGRID\Settings\I		Open	
DTD:	C:\Program Files\Common Files\CityGRID\Settings\			
Texture folder:	C:\Users\igr\Textur_DB			
	🗌 Debug	I Display		
	Save	Cancel		
UVM Systems GmbH			Database Conn	ection: •