Oracle User Guide

The installation and configuration of Oracle will affect the performance of Oracle directly, and the performance of SuperMap SDX+ for Oracle Plus is affected by Oracle. To improve the performance of SuperMap SDX+, it is needed to optimize the parameters when installing and configuring Oracle database. The follow documents introduces the installation of Oracle, the allocating of the memory and the setting of the parameters.

Main Contents:

Install Oracle

1. Select installation method

Double click setup.exe in the package, the following interface appears, select Advanced Installation. Then click Next.

👙 Oracle Database 10g Installation - In	stallation Method	
Select Installation Me	ethod	
Basic Installation		
Perform full Oracle Database 10g This option uses file system for s	Installation with standard configuration options requiring m torage, and a single password for all database accounts.	iinimal input.
	Voracle/product/10.2.0\db.1	Browse
Installation Type:	nterprise Edition (1.3GB)	
🔤 Create Starter Database	(additional 720MB)	
<u>G</u> lobal Database Name	c orcl	
Database Password:	Confirm Password:	
This passw	ord is used for the SYS, SYSTEM, SYSMAN, and DBSNMP account	S.
Advanced Installation		
Allows advanced selections such accounts, database character set alternative storage options such a	as different passwords for the SYS, SYSTEM, SYSMAN, and , product languages, automated backups, custom installations Automatic Storage Management.	I DBSNMP on, and
Help	Back Next (Install	Cancel
ORACLE		

Oracle Database Installation

^{2.} Select installation type

Select Custom, select the components according to your need and set the parameters. This may save disk space and improve the efficiency of Oracle. Click Next.

Cracle Universal Installer: Select Installation Type	
Select Installation Type	
Oracle Database 10g 10.2.0.3.0	
What type of installation do you want?	
C Enterprise Edition (1.06GB)	
Oracle Database 10g Enterprise Edition, the first database designed for the grid, is a self-manag scalability, performance, high availability and security features required to run the most demandi applications.	jing database that has the ing, mission critical
C Standard Edition (1.06GB)	
Oracle Database 10g Standard Edition is ideal for workgroups, departments and small-to-mediun looking for a lower-cost offering.	m sized businesses
C Personal Edition (1.06GB)	
Supports single user development and deployment that require full compatibility with Oracle Ente Oracle Standard Edition 10g.	erprise Edition 10g and
© Custom	
Enables you to choose individual components to install.	
	Product Languages)
Help Installed Products Back	Install Cancel
ORACLE'	
Select installation type	

3. Specify home details

It is recommended to you the default setting since Oracle will detect your machine and select the disk with the maximum free space. The installation directory can be changed. Click Next.

	Iniversal Installer: Specify Home Details		
Spec	ify Home Details		
Destin	ation		
Enter or	select a name for the installation and the full path where you want to install the	oroduct	t.
Na <u>m</u> e:	OraDb10g_home1	-	
P <u>a</u> th:	D:\oracle\product\10.2.0\db_1	+	Browse
Help	Installed Products Back Next In	rstall	Cancel

4. Select product components

You can select the components needed here.

Cracle Universal Installer: Available Product Components	
Available Product Components	
Oracle Database 10g	
The following are components that you can install as part of Oracle Datab components do you want to install?	ase 10g. Which of these
Components	Install Status
	New Install
☑ Oracle Database 10g 10.2.0.3.0	New Install
☑ Oracle Enterprise Manager Console DB 10.2.0.3.0	New Install
	New Install
□ Oracle Advanced Security 10.2.0.3.0	Not Installed
Oracle Partitioning 10.2.0.3.0	New Install
Image: Control of the second seco	New Install
☐ Oracle Label Security 10.2.0.3.0	Not Installed
Cracle OLAP 10.2.0.3.0	Not Installed
□ Oracle COM Automation Feature 10.2.0.3.0	Not Installed
Show all components, including required dependencies.	
Help Installed Products Back Ne	ext (install Cancel)
ORACLE	

Available product components

The following are the components list recommended to install:

- 1. Oracle DataBase 10g is the basic component of Oracle, required.
- 2. Oracle Enterprise Manager Console DB is the basic component of Oracle, it is recommended to install.
- 3. In Enterprise Edition Options:
 - Oracle Partitioning is used for manage tables in small partition, it is recommended to install.
 - Oracle Advanced Security: The safeguard of network, it is not needed for common GIS application.
 - Oracle Spatial: whether you need Oracle Spatial.
 - Oracle OLAP: if you have many concurrent users, install it.
- 4. In Oracle Net Sevices, Oracle Net Listener is required.
- 5. Oracle Call Interface(OCI), required.
- 6. Oracle Programmer, it is recommended to install it.
- 7. Oracle XML Development Kit, it is recommended to install it.
- 8. In Oracle Windows Interfaces:
 - Oracle ODBC Driver, it is recommended to install it.
 - Oracle Provider for OLE DB, it is recommended to install it.

Click Next.

5.Create database

When install the software, Oracle will check whether you system meet the requirements for the installation, the creating database interface will appear if the checking succeed. The database created by the default option Create a database may not meet you requirements, you can select Install database Software only, click Next to install the software.

Coracle Universal Installer: Product-Specific Prerequisite Checks				• 🗙
Product-Specific Prerequisite Checks				
The Installer verifies that your environment meets all of the minimum re configuring the products that you have chosen to install. You must man are flagged with warnings and items that require manual checks. For d checks, click the item and review the details in the box at the bottom of t	quirements fo ually verify and etails about pe he window.	r ins I cor erfor	stalling and nfirm the item rming these	s that
Check	Туре		Status	
Checking for proper system clean-up	Automatic		Succeeded	
Checking for Oracle Home incompatibilities	Automatic		Succeeded	<u>.</u>
(I)		_		D
			Retry	Stop
4 requirements to be verified.				
Actual Result: NEW_HOME Check complete. The overall result of this check is: Passed ===================================				D
Help Installed Products Back	lext	[nst	tall C	ancel
ORACLE				

Product-specific prerequisite checks

Cracle Universal Installer: Create Database	
Create Database	
If you want to create a new database, Oracle recommends using the Oracle Database Configu Assistant. This tool provides a simple, graphical method for creating a database, and can be a launched at the end of installation. You can create a database, configure ASM, or install softwar	ration iutomatically re only.
C Create a database C Configure Automatic Storage Management (ASM)	
Install database Software only	
Help Installed Products Back Next Install	Cancel
ORACLE	

1. After the installation finished, click Exit.

Configuring Oracle

When Oracle is installed, run Database Configuration Assistant (DBCA) in the start menu to configure Oracle.

In the start menu, click All Programs > Oracle > Configuration and Migration Tools > Database Configuration Assistant, the interface is as the following.

Click Next for the configuration of Oracle, there are 12 steps.

☐∄ Database Configuration Assista	int : Welcome
	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	S Back Next D

Database Configuration Assistant: Welcome

1. Create database

Select Create a Database, click Next.

📲 Database Configuration Assista	nt, Step 1 of 12 : Operations		
	Select the operation that you want to perform: Create a Database		
	C Configure Database Options C Delete a Database		
	C Manage Templates C Configure Automatic Storage Management		
Cancel Help		S Back Next >)

Database Configuration Assistant: Select operation

2. Select database templates

Select Custom Database because we need the Oracle database for SuperMap SDX+. Click Next.

Database Configuration Assist	ant, Step 2 of	12 : Database Templates	
	Select a te	mplate from the following list to create a database:	
	Select	Template	Includes Datafiles
	Q	Custom Database	No
	0	Data Warehouse	Yes
	0	General Purpose	Yes
	0	Transaction Processing	Yes
Hydraffication Hydraffication			Show Details
Cancel Help)	S Back Next	>>

Database Configuration Assistant: Database templates

3. Database Identification

Name the Global Database and the SID, as shown below. Click Next.

Database Configuration Assista	nt, Step 3 of 12 : Database Id	lentification	
	An Oracle database is un domain". Global Database Name: A database is referenced other instance on this cor SID:	iquely identified by a Globa	I Database Name, typically of the form "name. ance which is uniquely identified from any h Identifier (SID).
Cancel Help			
	Database Configuratio	on Assistant: Database Io	lentification

4. Management Options

Uncheck Configure the database with Enterprise Manager, as shown below. Click Next.

B Database Configuration Assista	ant, Step 4 of 12 : Management Options		- • •
	Each Oracle database may be manag Control or locally using the Oracle Ent management option that you would lik	ed centrally using the Oracle Enterprise Ma erprise Manager Database Control. Choos ie to use to manage this database.	mager Grid e the
New Statement	Use Grid Control for Database Min Enter Management Service Use Database Control for Database	Anagement	
	Enable Email Notifications Outgoing Mail (SMTP) Server: Email Address:		
Augusta Salahan ma Nagusta Salahan ma Nagusta Salahan ma Nagusta Salahan ma Nagusta Salahan ma	 Enable Daily Backup Backup Start Time: OS Username: 	02 = 00 = @ AM C PM	
	rasswuru.	L	
Cancel Help		Seck Next ≫)

Database Configuration Assistant: Management Options

5. Database Credentials

Input the password for the database account in the Password text box. You can use different passwords, as shown below. Click Next.

Database Configuration Assistant, S	Step 5 of 12 : Database (Credentials		
Fo	r security reasons, you tabase.	u must specify passwords	s for the following user accounts	in the new
(🖲 Use the Same Pass	word for All Accounts		
	Password:	***		
	Confirm Password:	***		
	DUse Different Passw	vords		
	User Name	Password	Confirm Password	
	SYS			
	SYSTEM			
			Rock Nevt S	
			Co Back Mext &)

Database Configuration Assistant: Database Credentials

6. Storage Options

The system provides three database mechanisms, in which Automatic Storage Management (ASM) and RAW Devices are used for advanced server, for normal PCs, just select File System.

- File System: Save and maintain single instance database file in the current file system directory.
- Automatic Storage Management (ASM): With ASM, the database just need to manage a few disk packs and there is no need to manage numerous database files, if you select this option, it is needed to specify a group of disk packs to create a ASM disk packs or specify an existing ASM disk packs.
- RAW Devices: The disk or disk partition not managed by file system.
 You can select this option when you site have at least the same raw disk partitions with Oracle data file.

Click Next.

🕼 Database Configuration Assistan	t, Step 6 of 12 : Storage Options	- • ×
	 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 a database layout for I/O performance. To use this option you must either specif 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 A Clusters (RAC) databases if you do not use Automatic Storage Management a System is not available. You need to have created one raw device for each da and log file you are planning to create in the database. Bpecify Raw Devices Mapping File Browse 	ind optimizes y a set of disks to and a Cluster File tafile, control file,
Cancel Help	<u> </u>) <u>Einish</u>

Database Configuration Assistant: Storage Options

7. Database File Locations

Specify locations for the Database files to be created, for more details, please refer to the help of Oracle. Here, we used the default option, that is Use Database File Locations from Template, click Next.

🕼 Database Configuration Assista	int, Step 7 of 12 : Database File Locations
	Specify locations for the Database files to be created:
Hunderstein Hunde	Ose Database File Locations from Template Ose Common Location for All Database Files Database Files Location: Ose Oracle-Managed Files Database Area: Multiplex Redo Logs and Control Files If you want to specify different locations for any database files, pick either of the above
HaverSQLAdamine Have SQLAdamine Have SQLAdamine Have SQLAdamine Have SQLAdamine Have SQLAdamine	options and use the Storage page to specify each location.
Cancel Help	<u> </u>

Database Configuration Assistant: Database File Locations

8. Recovery Configuration

Specify flash recovery area and enable archiving.

Check Specify Flash Recovery Area can ensure the security of the data, but it will degrade the performance. Click Next.

🕼 Database Configuration Assistan	nt, Step 8 of 12 : Recovery Configurat	ion	
	Choose the recovery options for the	e database:	
	Specify Flash Recovery Area		
	This is used as the default for a automatic backup using Enterp recovery files be located on phy	all backup and recovery operations, am rise Manager. Oracle recommends tha rsically different disks for data protectio	d is also required for at the database files and n and performance.
	Flash Recovery Area:	{ORACLE_BASE}\flash_recovery_	Browse
T Marine Statement T Marine Statement T Marine Statement Website Statement	Flash Recovery Area Size:	2048	M Bytes 👻
Harrison and Antonio and Anton	Enable Archiving	Edit Archive Mode Parameters)
		(1	File Location Variables)
Cancel Help		<u> </u>	ext » Einish

Database Configuration Assistant: Recovery Configuration

9. Database Content

Uncheck Oracle Data Mining, Oracle Spatial and Enterprise Manager Repository. Click Standard Database Components..., uncheck Oracle JVM and Oracle XML DB in the dialog box appears, click OK. Click Next.

📲 Database Configuration Assistan	t, Step 9 of 12 : Database Content	
	Databasa Componente Quetam Revi	
	Select the components you want to configu	re for use in your database. Provide the tableshare
_	in which you want the component to reside installed or depend on components which	. Components which appear disabled are either not are not selected.
	Coracle Data Mining	SYSAUX
-	Cracle Text	SYSAUX
	Cracle OLAP	SYSAUX
	🗆 Oracle Spatial	SYSAUX
	🗆 Oracle Ultra Search	SYSAUX
	Oracle Label Security	SYSTEM
	🗆 Sample Schemas	SYSAUX
	Enterprise Manager Repository	SYSAUX -
	Coracle Database Extensions for .NET	SYSAUX
		Standard Database Components)
Cancel Help		(
	G Standard Database Comp	onentr
	Colort the standard database	
	database. Oracle recomme	ands that you always install these components in your
	choose some components	se components may cause you to no longer be able to s on the previous page.
	Oracle JVM	SYSTEM V
	Oracle XML DB	SYSAUX Customize
	Uracie intermedia	STBAUX
		OK Help

Database Configuration Assistant: Database Content

10. Initialization Parameters

The parameter settings in this step will affect the performance of the database tremendously. Note the settings of the 5 aspects.

o All Initialization Parameters

Click All Initialization Parameters..., then click Display Advanced Parameters, as shown below. Most of the initialization parameters can be optimized to improve the performance of the database, it is recommended to modify cpu_count and db_file_multiblock_read_count. cpu_count is the number of CPUs assigned to Oracle database, the default is 1, you can magnify this value if you machine has multicore CPU, for dual-core CPU machine, the value of cpu_count can be set as 2, this may improve the speed of Oracle.

db_file_multiblock_read_count affects the number of Blocks read at a time when performing full table scan, the default value is 16, the maximum value supported by Oracle is no large than 128. You can change it according to your system environment. This value is affected by the maximum ability of the system I/O: Max(db_file_multiblock_read_count)=Max(System I/O)/db_block_size, usually, it can be changed to 32 or greater.

		All Initialization Par	ameters			83
		Name	Value	Override Def	Basic	Category
		db_2k_cache_size	0			Cache and I/O 🕒
		db_32k_cache_size	0			Cache and I/O
		db_4k_cache_size	0			Cache and I/O
(db_8k_cache_size	0			Cache and I/O
Database Configuration Assistant	t, Step 10 of 12 : Initialization Para	db_block_buffers	0			Cache and I/O
		db_block_checking	FALSE			Diagnostics and
	Memory Sizi	db_block_checksum	TRUE			Diagnostics and
	Trusiant Allegate reserves a	db_block_size	8192	 ✓ 	 ✓ 	Cache and I/O
	Typical - Allocate memory a Control of the second secon	db_cache_advice	ON			Cache and I/O
	Percentage: 40 📮 🤃	db_cache_size	50331648			Cache and I/O
	O Custom	db_create_file_dest			 	File Configuration
	Shared Memory Managen	db_create_online_l			 	File Configuration
	SGA Size	db_create_online_l			 ✓ 	File Configuration
	PCA Pizo:	db_create_online_l				File Configuration
		db_create_online_I				File Configuration
	Total Memory for Oracle:	db_create_online_l				File Configuration
	Total memory incl					D
	🍼 parameters, ir any	Hide Advanced Para	ameters	(c	lose Show D	escription Help
	L					
Sec. Spin						
	All Initialization Parameters)					
Cancel Help			🖇 🗄 Back 📃 🔃	ext ») (E	inish	

Database Configuration Assistant: All Initialization Parameters

o Memory

The memory assigned to Oracle, for normal servers, it can be 1G to 2G, if you memory is no more than 1G, it is recommended the memory assigned to Oracle should not be higher than 60%.

SGA: System Global Area

I	PGA: Program G	lobal Area		
Memory	Sizing	Character Sets	Connection Mode	
Typical - Allo	cate memory as a pe	ercentage of the total ph	ysical memory (2047 MB)	
Percentage	: 40 🔹 (Show I	Memory Distribution)		
○ Custom				
Shared Mer	mory Management:	● Automatic ○ Manua		
SGA Size		584	M Bytes	
PGA Size:		194	M Bytes 👻	
Total Memo D Tota para	iry for Oracle: al memory includes 4 ameters, if any.	40MB of Oracle Process	Size and the defaults for the empty	
Datab	ase Configuration	Assistant: Initializati	on Parameters-Memory	
0	Sizing			
H T T	Block Size: Use these blocks. D with specific D Processes: You Dracle You can	e the default va Each block corre- bit on the disk. can specify the	lue. Oracle database save sponds to a physical data maximum user processes c ly large value if there a	s the data in base space onnected to re many
	concurrent use:	rs.		
Memory	Sizing	Character Sets	Connection Mode	
A block is the s database is cr Block Size:	eated. 8192 The Byte	ge for allocation and for es	I/O. It cannot be changed once the	
Specify the ma connect to this background pr	ximum number of op database. The value ocesses plus 1 for e	perating system user pro of this parameter mus ach user process).	ocesses that can be simultaneously t be 6 or greater (5 for the	
Processes:	150			
Data	abase Configuratio	on Assistant: Initializa	ation Parameters-Sizing	
o (Character Sets			
Ç	Select Use the	default.		

Memory	Sizing	Character Sets	Connection Mode				
C Database Character Set							
Use the default							
The default character set for this database is based on the language setting of this operating system: WE8MSWIN1252.							
O Use Unicode	(AL32UTF8)						
Setting chara groups.	acter set to Unico	de (AL32UTF8) enable	es you to store multiple language				
O Choose from	the list of chara	ter sets					
Database Ch	naracter Set:	VVE8MSVVIN1252 - MS	Windows Code Page 1252 8-bi 🔻	J			
National Characte	haracter Set: AL16UTF16 - Unicode UTF-16 Universal character set						
Default Language	: Ameri	American					
Default Date Form	nat: United	United States					

Database Configuration Assistant: Initialization Parameters-Character Sets

• Connection Mode

Two connection modes are provided: Dedicated Server Mode and Shared Server Mode.

Dedicated Server Mode: In this mode, Oracle database requires each user process has a dedicated server process, each client has a server process. Oracle Net returns the current server process address to the client. Then the client sent the connecting request to the server address again.

It is recommended to select the dedicated server mode in the following circumstance:

- (1) Use database in the data warehouse environment.
- (2) There are only a few clients connected to your database.

(3) Database clients will send lasting and long hour running requests.

Shared Server Mode: Also called multi-thread server mode, in this mode, the Oracle database configuration allows multiple user processes to share a few server processes, thus supporting more users.

It is recommended to select the shared server mode in the following circumstance:

(1) When using database in the on-line transaction processing (OLTP) environment, shared server mode can benefit the on-line transaction processing application a lot.

(2) Multiple users need to connect to the database and use the system resources effectively.

(3) Memory limitation. Compared with dedicated server, the use of shared server memory is relatively small when the number of users increases. In shared server mode, the memory used is generally in proportion to the number of users. Shared server can adjust and optimize the whole system performance, so you can choose shared server if it is needed to control the optimization of the database highly.

(4) If you want to use the functionalities of Oracle Net, such as connection sharing, connection concentration and load balancing.

(5) If you need to manage and use system resources efficiently.

(6) connection is predictable with fast speed, for example, Web application.

Memory	Sizing	Character Sets	Connection Mode				
Select the mode in	which you want you	r database to operat	te by default:				
Dedicated Serve For each client co client. Use this n when clients will	r Mode onnection the datab node when the num be making persiste	ase will allocate a re ber of total client cor nt, long-running requ	source dedicated to serving only that mections is expected to be small or uests to the database.				
C Shared Server M Several client cor when a large nur efficiently utilizing	ode nnections share a d nber of users need I system resources.	atabase-allocated p to connect to the dat The Oracle shared	ool of resources. Use this mode abase simultaneously while server feature will be enabled.				
Shared Servers s instance is starte	pecifies the numbe d up.	r of server processe	s that you want to create when an				
Shared Server:							
			Edit Shared Server Parameters)				
Database Con	Database Configuration Assistant: Initialization Parameters-Connection Mode						

Click Next.

11. Database Storage

You can specify the storage parameter of the database here, it is recommended to use the default parameter, as shown below. Click next.



Database Configuration Assistant: Database Storage

12. Creation Options

Click Finish. The Confirmation window appears, click OK.

Database Configuration Assistant	; Step 12 of 12 : Cre	reation Options
	Select the databas	se creation options: tabase Database Template [myOracleDB
	Generate D Destination Directory:	Database Creation Scripts D:\oracle\product\10.2.0\admin\myOracleDB\scripts Browse
Cancel Help		G Back Next >

Database Configuration Assistant: Creation Options

Confirmation							×
The following operations will be perform A database called "myOracleDB" will t	ned: pelcreated.						
Database Details:							
Cust Use this templa Common Options	om D ate to create	a cus	aba tomized	ase databa	ISB.		
Option	Selected						
Oracle JVM	false						
Oracle Data Mining	false						
Oracle Text	false						. 1
Oracle XML DB	false						
Oracle Intermedia	false						. 1
Oracle OLAP	false						
Oracle Spatial	false						
Oracle Ultra Search	false						
Oracle Label Security	false						
Comple Cohomoc	folco						
						(Save as an HTM	1L file.
ОК	Cancel)	Hel	p)			

Database Configuration Assistant: Confirmation

Note

- It is not recommended to install multiple Oracle instances (databases) on a server, this may lower the performance of the database.
- After the creating of the Oracle database, it may occupy some process and memory, it is recommended to change the two services of Oracle to manual, you can open the service window in Control Panel > System and Security > Administrative Tools > Service, and change the startup type to Manual.

OracleOraDb10g_home1TNSListener	Started	Manual	Local Syste
CracleServiceMYORACLEDB	Started	Manual	Local Syste
Change the startup type of t	he Oracle services		

Listener configuration

When the Oracle configuration finished, go on to the listener configuration.

Listener is a process representing the client application receive request. The listener is used to listen to the client request on the specified protocol address.

Run Net Configuration Assistant: Start > All Programs > Oracle > Configuration and Migration Tools > Net Configuration Assistant, the Oracle Net Configuration Assistant: Welcome window appears, select Listener configuration, as shown below. Click Next.

Oracle Net Configuration Assistant: 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 O Naming Methods configuration		
	igodoldoldoldoldoldoldoldoldoldoldoldoldol		
	O Directory Usage Configuration		
Cancel Help	Seck Next >		

Oracle Net Configuration Assistant: Welcome

1. Add listener

Select Add, click Next.

Oracle Net Configuration Assistant: Listener Configuration, Listener		x
	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	
	O Delete	
	O Rename	
Cancel Help	i ⊴ Back Next >>	
Add listener		

2. Set listener name

Input the name of the listener not used currently. The name should not larger than 138 characters, click Next.

Oracle Net Configuration Assistant: Lis	tener Configuration, Listener Name	X
	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: LISTENER	
Cancel Help	S Back Next >	

Set listener name

3. Select Protocols

Select one or more protocols to accept connection, then click Next.

Oracle Net Configuration Assis	stant: 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 Selected Protocols IPC NMP IPC NMP IPC IPC IPC IPC IPC IPC IPC IP
Cancel Help	(

Select Protocols

4. Select port number

TCP/IP identifies the protocol address of the listener with port number, select the port number to use, here we use the default port number 1521. Click Next.

Oracle Net Configuration Assista	nt: Listener Configuration, TCP/IP Pro	otocol	X
	Which TCP/IP port number should number selected should not be u this computer.	d the listener use? The port sed by any other software o	n
	Use the standard port number	of 1521	
	○ Use another port number:	1521]
Cancel Help	🔇 Back	Next »	

Select TCP/IP protocol port number

5. Whether to configure other listeners

Select Yes if you want to configure other listeners, select No otherwise, click Next. When the listener configuration completed, click Finish.

Oracle Net Configuration Assistant: Lis	tener Configuration, More Listeners?	X
	Would you like to configure another listener? No Yes	
Cancel Help	🕜 Back 📃 Next 📎	

Whether to configure more listener

Local Net Service Configuration

When the listener configuring completed, you need to configure the local Net Service Name.

Run Net Configuration Assistant: Start > All Programs > Oracle > Configuration and Migration Tools > Net Configuration Assistant. In the Oracle Net Configuration Assistant: Welcome window, select Local Net Service Name configuration, as shown below. Click Next.

Oracle Net Configuration Assistant:	Welcome	23
	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: O Listener configuration	
	○ Naming Methods configuration	
	Local Net Service Name configuration	
	O Directory Usage Configuration	
Cancel Help	🤇 Back Next 📎	

Oracle Net Configuration Assistant: Welcome - Local Net service name configuration

1. Add Net service name

Select Add, click next.

Oracle Net Configuration Assi	stant: Net Service Name Configuration	23
	To access an Oracle database, or other service, across the network you use a net service name. The Oracle Net Configurat Assistant allows you to work with net service names resolved using local naming. Select what you want to do:	ion
	○ Rename ○ Test	
Cancel Help) (< Back Next >)	

Add Net service name

Add: 6/F, Building 107, No. A10, Jiuxianqiao North Road, Chaoyang District, Beijing, 100015, CHINA, 100015 E-mail: request@supermap.com Website: www.supermap.com

2. Service name

Input the name identify the database service, click next.

Oracle Net Configuration Assis	tant: Net Service Name Configuration, Service Name
	Each Oracle database or service has a service name. An Oracle database's service name is normally its global database name. Enter the service name of the database or other service you want to access.
	Service Name: myOracleDB
Cancel Help	(§ Back [Next ≫)

Input service name

3. Select Protocols

Select the protocol used for the database you want to use, click Next.

Oracle Net Configuration Assist	ant: Net 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. TCP TCPS IPC NMP
Cancel Help	<u> Back</u> Next >

Select Protocols

$4.\, \text{TCP}/\text{IP Protocols}$

TCP/IP identifies the protocol address of the listener with port number, the port number should be the same with the port number of the listener. The host name is the host name of the computer with the listener. Click Next.

Oracle Net Configuration Assistant: Net	Service Name Configuration, Net Service Name	x
	Enter a name for this net service name. The Oracle Net Configuration Assistant has defaulted the net service name to be the same as the service name you entered earlier. Net Service Name: myOracleDB	
Cancel Help	🕓 Back Next >>	

TCP/IP Protocols

5. Connection test

You can verify that an Oracle database can be reached by performing a connection test. As shown below. Then click Next.

Oracle Net Configuration Assistar	nt: Net Service Name Configuration, Test
	You can verify that an Oracle database can be reached, using the information provided, by performing a connection test. Would you like to test that a connection can be made to the database? O No, do not test Yes, perform a test
Cancel Help	G Back Next >

Whether to perform connection test

Add: 6/F, Building 107, No. A10, Jiuxianqiao North Road, Chaoyang District, Beijing, 100015, CHINA, 100015 E-mail: request@supermap.com Website: www.supermap.com

6. Connection

Test the network service name information. In the test, Oracle Net Configuration Assistant tries to connect to long-distance database service and create connection, then finish the connection. If the information "invalid password, login is rejected" appears, click the Change Login button, input you password in the Change Login dialog box, input the password you set. Click OK and the connection will be successful.



Connecting failed, change login information

Oracle Net Configuration Assistant: Net Service Name Configuration, Connecting		X
	Wait while the Oracle Net Configuration Assistant tries to connect to the database using the information you provided Details: ConnectingTest successful. Change Login	
Cancel Help	S Back Next >	

Test successful

Click Next.

7. Net service name

Input the service name, use the service name input before by default, click Next.

Oracle Net Configuration Assistant: Ne	t Service Name Configuration, Net Service Name	×
	Enter a name for this net service name. The Oracle Net Configuration Assistant has defaulted the net service name to be the same as the service name you entered earlier. Net Service Name: myOracleDB	
Cancel Help	🔇 Back 🛛 Next 📎	

Net service name

8. Whether to configure another Net service name

As shown below. Then click Next and complete the configuration.

Oracle Net Configuration A	ssistant: Net Service Name Configuration, Another Net Service Name?	23
	Would you like to configure another net service name? No Yes	
Cancel Help	Back	

Whether to configure another Net service name

Oracle Net Configuration Assistant: Net Service Name Configuration Done	23
Net service name Configuration Complete!	
Cancel Help & Back Next >	

Net service name configuration completed