Oracle® Hospitality Suite8
Install Shield & Installation Guide
Release 8.14
F17631-02

July 2019
This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this software or related documentation is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are “commercial computer software” pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.
4 Suite8 Install Shield - Installation of Client ........................................ 24
   Enable the Firewall ............................................................................. 34
   Enable User Access Control................................................................. 35
   Change the User Access Rights for the Oracle Client/Suite8 Client files ....... 36
5 Suite8 Install Shield - Installation of Suite8 Database ......................... 38
   Activation of Oracle Wallet ................................................................... 58
   Oracle 12cR1/12cR2 Database:................................................................. 58
   Enable the Firewall ............................................................................. 59
   Enable User Access Control................................................................. 61
   Change the User Access Rights for the Oracle Database files................ 61
   Change System Environment for Oracle Database (64-bit) & Oracle Client (32-bit) ..... 62
   Using Suite8 Database Server Shares ................................................... 65
6 Suite8 Install Shield - Install Oracle Server Maintenance Jobs ............. 68
   Suite8 Install Shield - Install Oracle Server Maintenance Jobs................ 80
   Verify Scheduled Tasks......................................................................... 80
   Suite8 Install Shield - Appendix (Tips&Tricks, Q&A, Issues...) ................ 82
7 Suite8 Upgrade Tool - Pre-Installation Tasks ........................................ 83
8 Suite8 Upgrade Tool ............................................................................ 84
   Upgrading Suite8 Release 8.10.2 and higher ......................................... 84
   Updating the Suite8 Database ................................................................. 86
   Upgrading the Suite8 Application............................................................ 88
   Installing the SQL Scripts...................................................................... 88
9 Suite8 Upgrade Tool - Appendix: Issues and Solutions ......................... 92
   Issue: Error Message Cannot decrypt password ..................................... 92
   Issue: Button for D/B-Update or Program Update is grayed out ................. 92
   Issue: The select connection screen is empty ....................................... 93
10 Suite8 Upgrade Tool - Installing the Suite8 ini File ............................... 96
    Installing the ini File and Updating Shortcuts ........................................ 96
11 Suite8 Upgrade Tool - Post Upgrade Tasks ......................................... 97
12 Activating Oracle Wallet ..................................................................... 98
13 Exporting and Importing a Suite8 User ............................................... 99
   What Is Data Pump Export? .................................................................... 99
   Activating the Data Pump ...................................................................... 99
   Exporting using the Data Pump EXPDP.exe ............................................ 100
   Import using the Data Pump IMPDP.exe ............................................... 101
Preface

This guide provides instructions on how to install or upgrade and configure Oracle Hospitality Suite8 release 8.14. You can download the Suite8 8.14. Release at the following URL: https://edelivery.oracle.com

Audience

This guide is intended for installers, programmers, technical support teams, product specialists, and others who install the Oracle Hospitality Suite8 release 8.14.

Important Information

When upgrading from Version Suite8 8.10.0, you must enter a note category for Financial Accounts in Suite8 configuration before running the upgrade tool. For more information see Pre-Installation Tasks section.

Password changes

User password management changed for Suite8 in version 811 and higher. Therefore users will be asked to change the password when logging in after the update. The old password can be entered. This is an exception, because passwords are still ok, they just need to be stored by the new executable again.

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL: https://support.oracle.com

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received and any associated log files
- Screen shots of each step you take

Documentation

Oracle Hospitality product documentation is available on the Oracle Help Center at http://docs.oracle.com/en/industries/hospitality/

Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 2017</td>
<td>• Initial publication</td>
</tr>
<tr>
<td>February 2018</td>
<td>• Update for Release 8.12.0.0</td>
</tr>
<tr>
<td>Month</td>
<td>Notes</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>August 2018</td>
<td>• Release 8.13.0.0</td>
</tr>
<tr>
<td>March 2019</td>
<td>• Release 8.14.0.0</td>
</tr>
<tr>
<td>July 2019</td>
<td>• Updated for terminology changes</td>
</tr>
</tbody>
</table>
Before You Start

Installing Suite8 requires:

- PCs and a working knowledge of the Microsoft Windows Interface
- Microsoft Windows Administrative privileges
- Root privileges if installing on an Oracle Linux environment
- Client Application Loader (CAL) technology

Understanding the Process

The installation process includes either a new installation or the upgrade of an existing installation:

1. New Installation: You must run the Install Shield, see section Install Shield
2. Upgrade: You must complete the Pre-Installation Tasks and run the Upgrade Tool, see section Upgrade Tool
Introduction

The Suite8 installation shield offers a complete installation of Oracle Schema with Oracle12cR1/Oracle12cR2 Database, Oracle Hospitality Suite8 Property with Oracle 12cR1/Oracle 12cR2 Client (32-bit) as well as Suite8 WebConnect, XML Interface, Oracle SQL Developer, Crystal Reports 12 Runtime and Oracle Database Maintenance.

When choosing Oracle Server, Instance and Schema installation, the install shield takes care of all Oracle settings for the Server and prepares the installation of the correct version 8, please make sure to have the Oracle DVD ready or download the Oracle Installation files from edelivery.oracle.com. The Install Shield supports different RAM Sizes. It reads real memory size, therefore no additional questions about memory are being asked with the install shield.

**Microsoft Windows 7**

Microsoft Windows 7 certification starts with ‘Oracle Database 11gR2 (11.2.0.1)’. That means that the Oracle Database 11gR2 is the first Oracle Database product certified and supported to install and run on Microsoft Windows 7.

**Microsoft Windows 8.1**

Microsoft Windows 8.1 certification starts with Oracle Database 11gR2 (11.2.0.4) and Oracle Database 12cR1 (12.1.0.2).

We recommend using Oracle Database Version 12cR1 (12.1.0.2) for Microsoft Windows 8.1.

**Microsoft Windows 10**

Microsoft Windows 10 certification starts with Oracle Database 12cR1 (12.1.0.2).

**Microsoft Windows Server 2012 R2**

Microsoft Windows Server 2012 R2 certification starts with ‘Oracle Database 11gR2 (11.2.0.4) and Oracle Database 12cR1 (12.1.0.2).

We recommend using Oracle Database Version 12cR1 (12.1.0.2) for Microsoft Windows Server 2012 R2.

**Microsoft Windows Server 2016**

Microsoft Windows Server 2016 certification starts with Oracle Database 12cR2 (12.2.0.1).
Oracle Client Version

The Oracle Client versions 12cR2 (12.2.0.1, 32-bit) and 12cR1 (12.1.0.2, 32-bit) are compatible with Windows 7, Windows 8.1, Windows 10 and Windows Server 2012 R2.

For Windows Server 2008 R2 only Oracle Client version 12cR1 (32-bit) is compatible!
For Windows Server 2016 only Oracle Client version 12cR2 (32-bit) is compatible!

Minimum Product Version to use with Oracle Client 12cR1 and 12cR2 for POS8 is 8.9.6.3 (POS Release 8.194.1), and for IFC8 is 8.3.0.

**Note:** Please refer to the Certifications page on My Oracle Support.
3  Suite8 Install Shield – Setup

Prerequisites
Please refer to the Suite8 Software Description and Suite8 System Requirements available on the Oracle Help Center at http://docs.oracle.com.

Preparing the Installation
The following steps are required for the Oracle Client/Database installation:

Verify Event Logs
1. Verify that there are no errors in the event log file. The Oracle installation should not be started if there are system errors listed in the event log which could stop Oracle running.
2. Open a command prompt, use the option Run as administrator and type eventvwr.msc to launch the Event Viewer utility.

Configure Regional settings
The Windows regional settings should be configured using English (United States).

1. Open a command prompt, using the option Run as administrator and type intl.cpl to launch the Region utility.
2. Select the Formats tab. In the Format option select English (United States). Click OK to save changes.
Note: The language must be set to English (United States) for the Oracle Client installation. When the installation has been completed this should be changed back to the local language.

Enable the .NET Framework 3.5 (2.0) feature (Windows 7)

You can enable the .NET Framework 2.0/3.0/3.5 through the Control Panel.

1. Open a command prompt, using the option Run as administrator and type `appwiz.cpl` to launch the Programs and Features utility.
2. In the Programs and Features panel, select the option Turn Windows features on or off (upper left hand corner of the window).
3. Select the feature .NET Framework 3.5 (includes .NET 2.0 and 3.0) in the Windows Features window and click OK to save the changes.

Enable the .NET Framework 4.x, 3.5 (2.0) feature (Windows 8.1)

You can enable the .NET Framework 2.0/3.0/3.5/4.0/4.5 through the Start screen.

1. Open the Start screen and search for Programs and Features. Launch the Programs and Features utility.
2. In the Programs and Features panel, select the option Turn Windows features on or off (upper left hand corner of the window).
3. Select the feature .NET Framework 3.5 (includes .NET 2.0 and 3.0) and .NET Framework 4.5 in the Windows Features window and click OK to save the changes.

Enable the .NET Framework 4.x, 3.5 (2.0) feature (Windows Server 2012 R1/R2 and Windows Server 2016)

You can enable the .NET Framework 2.0/3.0/3.5/4.0/4.5 through the Start screen.

1. Open the Start screen and search for Server Manager. Launch the Program.
2. In the **Menu** select the option **Add Roles and Features** (upper right hand corner of the window).

3. Click **NEXT** to continue.
4. Select the option: **Role-based** or **feature-based** installation. Click NEXT to continue.

5. Select the option: **Select a server from the server pool list and**. Mark your Server from the list and click NEXT to continue.
6. Click NEXT to continue without selecting any Roles.

7. Select the feature .NET Framework 3.5 (includes .NET 2.0 and 3.0) in the Features window and click NEXT to continue.
8. Mark the option: **Restart the destination server automatically if required.** Click INSTALL to install the selected features.

**Disable the Firewall**

During the installation, it is necessary to disable the Windows Firewall and UAC (User Account Control). After the installation they need to be activated again.

1. Open a command prompt (with the option Run as administrator) and type `firewall.cpl` to launch the Firewall Configuration utility.
2. In the Firewall Control Panel, click **Turn Windows Firewall on or off** (upper left hand corner of the window).
3. Select Turn off Windows Firewall (not recommended) in the Windows Firewall Settings window and click OK to save the changes.

4. Close the Firewall Configuration utility.

**Disable User Access Control**

1. Start the User Access Control Configuration Assistant by typing the following command:
   
   cd /D \c:\windows\system32
   
   useraccountcontrolsettings.exe
2. Turn off the notification by changing the UAC to **Never notify**. Click **OK** to save the changes.

3. Restart the computer to Turn off the **User Account Control**.

**Getting Started**

1. Download files from [https://edelivery.oracle.com](https://edelivery.oracle.com)
For more information about oracle database, refer to http://www.oracle.com/technetwork/database/index.html

2. Create folders `\CD1`, `\CD2`, `\CD4` and `CPU` in a temporary directory, such as `C:\INSTALL`, and unzip/copy the downloaded files:
   - CD1 - database
   - CD2 - client
   - CD4 - used for main patch, if available
   - CPU - used for Critical Patch Update, if available

   ![Folder structure](image1.png)

   ![Folder contents](image2.png)

   **Note:** The provided zip files include **Main folder**. This must not be copied. For example, the folder `Database` in the zip file will become `CD1` on the installation drive, and so forth.
3. Create a temporary directory such as C:\INSTALL\Suite8_FULL and unzip/copy the Install Shield files.

![Extract all files](image)

- Local Disk (C:) → INSTALL → Suite8_FULL →

![Library](image)

- Name
  - 0x0408.ini
  - data1.cab
  - data1.hdr
  - data2.cab
  - data3.cab
  - data4.cab
  - ISSetup.dll
  - layout.bin
  - setup.exe
  - setup.ini
  - setup.inx
  - setup.isn
  - Setup2.bmp
  - Thumbs.db

4. To start the Suite8 installation, select the `setup.exe` from the Suite8 install directory. From the drop-down menu, select **Run as Administrator**. 

![New folder](image)

- Name
  - 0x0408.ini
  - data1.cab
  - data1.hdr
  - data2.cab
  - data3.cab
  - data4.cab
  - ISSetup.dll
  - layout.bin
  - setup.exe

- [Run as administrator](image)

5. Click **Next** to continue.
6. Select the type of installation:
   1. Client/Workstation Installation
   2. Oracle Server, Oracle Instance and Version Control Installation
   3. XML Interface
   4. Oracle Hospitality Suite8 Property Web Connect Classic
   5. Oracle Hospitality Suite8 Property Web Connect Next Generation
   6. Crystal Reports 12 Runtime
   7. Oracle Server Maintenance Jobs Installation

**Client/Workstation Installation**

The client/workstation installation installs and registers all of the Suite8 required components such as Crystal 12 depending on the selection. It also detects if Oracle is installed or not.

**Oracle Server, Oracle Instance and Version Control Installation**

If the option: Oracle Server, Oracle database and Version Control Installation is selected, a search for an existing Oracle Installation is performed. If none is found then
the install shield guides the Oracle Server Installation and creates an Oracle instance/database as well as Suite8 Schemas. All required files for Suite8 Version Control are also installed on the server.

Version Control is a tool to speed up the upgrade process. Once Version Control is active, the Suite8 program files can be placed in one location on the server and each time a user logs in, a check is performed ensuring that the correct version of the program files is located on the local drive of the machine. If the correct version is not located then it is copied over from the server.

**Oracle Hospitality Suite8 Property Web Connect**

Selecting Oracle Hospitality Suite8 Property Web Connect installs Suite8 Web Connect, the web booking engine.

For system requirements and setup information, please read the documentation for Oracle Hospitality Suite8 Property Web Connect.

**XML Interface**

Selecting XML Interface installs Suite8 XML Interface. This interface is required for example for Suite8 Web Connect, Hotel Connector and various Interfaces such as Hurdle XML Interface.

**Crystal Reports 12 Runtime**

Selecting this option installs Crystal 12 runtime files.

**Oracle Server Maintenance Jobs Installation**

Selecting this option installs Oracle Back and Maintenance Jobs and required files.
4  Suite8 Install Shield - Installation of Client

1. Select **Client/Workstation Installation** and click Next to continue.

2. The Oracle Client Install shield Wizard will be started. Click **Next** to continue.

3. If the Oracle client software is not installed the following message is displayed. Click **Yes** to continue.
4. Select the path on your hard disk where the Oracle Installation files has been copied, such as C:\INSTALL\Oracle12c. Click Next to continue.

5. Enter the Oracle home directory for the Oracle Client C:\ORACLE. Click Next to continue.
6. Enter the **Server** name or IP address for the Oracle Database Server. Click **Next** to continue.

7. Enter the **NLS_LANG** parameter which depends on the Operating System Locale. This Language value will be used for the Oracle communication between Suite8 Client and Oracle Database. The default value is: `AMERICAN_AMERICA.WE8MSWIN1252`. Click **Next** to continue.
Note: If you want to connect with the Oracle Client to an Oracle Database with Multilingual support (UNICODE), please use the NLS_CHARACTER_SET: AL32UTF8 (e.g. AMERICAN_AMERICA.AL32UTF8)
The following NLS_LANG values are currently supported:

<table>
<thead>
<tr>
<th>Operating System Locale</th>
<th>NLS_LANG Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arabic (U.A.E.)</td>
<td>ARABIC_UNITED_ARAB_EMIRATES.AR8MSWIN1256</td>
</tr>
<tr>
<td>Bulgarian</td>
<td>BULGARIAN_BULGARIA.CL8MSWIN1251</td>
</tr>
<tr>
<td>Catalan</td>
<td>CATALAN_CATALONIA.WE8MSWIN1252</td>
</tr>
<tr>
<td>Chinese (PRC)</td>
<td>SIMPLIFIED_CHINESE_CHINA.ZHS16GBK</td>
</tr>
<tr>
<td>Chinese (Taiwan)</td>
<td>TRADITIONAL_CHINESE_TAIWAN.ZHT16MSWIN950</td>
</tr>
<tr>
<td>Chinese (Hong Kong HKCS)</td>
<td>TRADITIONAL_CHINESE_HONG_KONG.ZHT16HKSCS</td>
</tr>
<tr>
<td>Chinese (Hong Kong HKCS2001)</td>
<td>TRADITIONAL_CHINESE_HONG_KONG.ZHT16HKSCS2001</td>
</tr>
<tr>
<td>Croatian</td>
<td>CROATIAN_CROATIA.EE8MSWIN1250</td>
</tr>
<tr>
<td>Czech</td>
<td>CZECH_CZECH_REPUBLIC.EE8MSWIN1250</td>
</tr>
<tr>
<td>Danish</td>
<td>DANISH_DENMARK.WE8MSWIN1252</td>
</tr>
<tr>
<td>Dutch (Netherlands)</td>
<td>DUTCH_THE_NETHERLANDS.WE8MSWIN1252</td>
</tr>
<tr>
<td>Dutch (Belgium)</td>
<td>DUTCH_BELGIUM.WE8MSWIN1252</td>
</tr>
<tr>
<td>English (United Kingdom)</td>
<td>ENGLISH_UNITED_KINGDOM.WE8MSWIN1252</td>
</tr>
<tr>
<td>English (United States)</td>
<td>AMERICAN_AMERICA.WE8MSWIN1252</td>
</tr>
<tr>
<td>English (United States)</td>
<td>AMERICAN_AMERICA.WE8ISO8859P9</td>
</tr>
<tr>
<td>Estonian</td>
<td>ESTONIAN_ESTONIA.BLT8MSWIN1257</td>
</tr>
<tr>
<td>Finnish</td>
<td>FINNISH_FINLAND.WE8MSWIN1252</td>
</tr>
<tr>
<td>French (Canada)</td>
<td>CANADIAN_FRENCH_CANADA.WE8MSWIN1252</td>
</tr>
<tr>
<td>French (France)</td>
<td>FRENCH_FRANCE.WE8MSWIN1252</td>
</tr>
<tr>
<td>German (Germany)</td>
<td>GERMAN_GERMANY.WE8MSWIN1252</td>
</tr>
<tr>
<td>Greek</td>
<td>GREEK_GREECE.EL8MSWIN1253</td>
</tr>
<tr>
<td>Hebrew</td>
<td>HEBREW_ISRAEL.IW8MSWIN1255</td>
</tr>
<tr>
<td>Hungarian</td>
<td>HUNGARIAN_HUNGARY.EE8MSWIN1250</td>
</tr>
<tr>
<td>Icelandic</td>
<td>ICELANDIC_ICELAND.WE8MSWIN1252</td>
</tr>
<tr>
<td>Indonesian</td>
<td>INDONESIAN_INDONESIA.WE8MSWIN1252</td>
</tr>
<tr>
<td>Italian (Italy)</td>
<td>ITALIAN_ITALY.WE8MSWIN1252</td>
</tr>
<tr>
<td>Japanese</td>
<td>JAPANESE_JAPAN.JA16SJIS</td>
</tr>
<tr>
<td>Korean</td>
<td>KOREAN_KOREA.KO16MSWIN949</td>
</tr>
<tr>
<td>Latvian</td>
<td>LATVIAN_LATVIA.BLT8MSWIN1257</td>
</tr>
<tr>
<td>Lithuanian</td>
<td>LITHUANIAN_LITHUANIA.BLT8MSWIN1257</td>
</tr>
<tr>
<td>Norwegian</td>
<td>NORWEGIAN_NORWAY.WE8MSWIN1252</td>
</tr>
<tr>
<td>Polish</td>
<td>POLISH_POLAND.EE8MSWIN1250</td>
</tr>
</tbody>
</table>
8. Select **Client with Crystal 12**, if you want to install Crystal runtimes during the basis setup. Please check the version used in your property. Use Crystal 12.2 for Windows 7 or 12.6 for Windows 8.1, Windows 10, Windows server 2012 R1/R2 and Windows server 2016.

9. Click **Next** to continue.

**Note:** Select **Client without Crystal runtime**, if you would like to install Crystal runtime manually.

10. Select either the Professional Edition or the Small Business Edition according to the license code received from Oracle. Click **Next** to continue.
11. The next screen will display a read me text file detailing the installation process. This read me text contains the information listed under Prerequisites of the Oracle client/workstation installation. Read this information carefully and make sure that all required transactions have been completed. Click **Next** to continue.

12. The next step prompts with the path for the Fidelio program files, the default is: **C:\FIDELIO**. Select **Browse** to change the default path. Click **Next** to continue.
13. The setup program creates a Start Menu folder: **Oracle Hospitality Suite8 Property**. If you want to create a different folder, select the required program folder from the list or enter the new folder name. Click **Next** to continue.

14. The following step requires the user and complex password to be entered to logon to the Suite8 live database and create the command line parameters. Click **Next** to continue.

**Note:** The **complex password** depends on the used V8LIVE user account password from the Oracle Database setup process. The password is **case sensitive**.

Complexity requirements are:
- Not to contain the user's account name or parts of the user's full name that exceed two consecutive characters
- Minimum password length of 8 characters
• First character of password MUST be a character
• Password must contain at least 1 Lowercase character (a through z)
• Password must contain at least 1 Uppercase character (A through Z)
• Password must contain at least 1 digit (0 through 9)
• Password can contain special character: !*()_\-+\{\}[\]@~#.,

15. The next step is similar to the previous step, but requires the username and complex password to logon to the Suite8 training database and create the command line parameters. Click Next to continue.

Note: The complex password depends on the used V8TRAIN user account password from the Oracle Database setup process. The password is case sensitive.

Complexity requirements are:
• Not to contain the user's account name or parts of the user's full name that exceed two consecutive characters
• Minimum password length of 8 characters
• First character of password MUST be a character
• Password must contain at least 1 Lowercase character (a through z)
• Password must contain at least 1 Uppercase character (A through Z)
• Password must contain at least 1 digit (0 through 9)
• Password can contain special character: !*()_\-+\{\}[\]@~#.,
16. The program folder and runtimes are now created and registered.

17. If the Oracle Client was not installed – the setup program will install the Oracle Client.
18. The install shield will register the Suite8 program modules install Crystal Reports 2008 Runtimes SP6.

19. The Oracle Client install shield displays a message upon completion. Click **Finish** to continue and exit the Install shield Wizard.

**Enable the Firewall**

After the installation is completed, it is necessary to enable the Windows Firewall again and turn on the UAC (User Account Control).
1. Open a command prompt (with the option Run as administrator and type firewall.cpl to launch the Firewall Configuration utility.

2. In the Firewall Control Panel, click Turn Windows Firewall on or off (upper left hand corner of the window).

3. Select Turn on Windows Firewall in the Windows Firewall Settings window and click OK to save the changes.

4. Close the Firewall Configuration utility.

**Enable User Access Control**

1. Start the User Access Control Configuration Assistant by typing the following command:
   
   cd /D c:\windows\system32
   useraccountcontrolsettings.exe
2. Turn on the notification by changing the UAC to Default. Click OK to save the changes.

Change the User Access Rights for the Oracle Client/Suite8 Client files

1. Open a command prompt (with the option Run as administrator).

Type the following commands for Oracle 12cR1 client:

```cmd
cd /D c:\
icacls c:\oracle\12.1.0\client\network\admin\* /grant Users:F /T /C
icacls c:\fidelio\* /grant Users:F /T /C
```

Type the following commands for Oracle 12cR2 client:

```cmd
cd /D c:\
icacls c:\oracle\12.2.0\client\network\admin\* /grant Users:F /T /C
icacls c:\fidelio\* /grant Users:F /T /C
```
Note: For German installations, the following commands are used:

```
icacls c:\oracle\1x.x.0\client\network\admin\* /grant Benutzer:F /T /C
icacls c:\fidelio\* /grant Benutzer:F /T /C
```
5 Suite8 Install Shield - Installation of Suite8 Database

1. Select Oracle Server, Oracle Instance and Schema Installation and click Next to continue.

2. The Oracle Instance/Schema Setup Wizard will be started. Click Next to continue.

3. The next screen displays a read me text file detailing the installation process. Read this information carefully and make sure that all required transactions have been completed. Click Next to continue.
4. Select either the **Oracle Database/Fidelio Suite8 Version Control** or the **Fidelio Suite8 Version Control** option. The first option will install the Fidelio Suite8 Version Control, the Oracle database and the Night Auditor Reports Share. The second option will only install the Fidelio Suite8 Version Control and the Night Auditor Reports Share.

5. Select the first option and click **Next** to continue.

6. If the Oracle Database software is not installed the following message is displayed. Click **Yes** to continue.
7. The next step prompts with the path for the Fidelio Version Control Base directory, the default is: \\FIDELIO. Select Browse to change the default path. The install shield performs the following tasks:
   Creates the following sub directories on the Version Control Base directory (for example: \\FIDELIO):
   \PROGRAMS
   \HTML
   \VERSIONCTRL
   Copies all the Fidelio Suite8 files to the directories: \PROGRAMS, \HTML and \VERSIONCTRL and creates a Windows Share: VersionCtrl$ for the Version Control Base directory.
8. Click Next to continue.

9. The following step requires the complex password to be entered for the Windows User account (Suite8.VerCtrl) for the Fidelio Version Control Share/Fidelio Night Auditor Report Share. The password is case sensitive. Click Next to continue.
   Complexity requirements are:
- Not to contain the user's account name or parts of the user's full name that exceed two consecutive characters
- Minimum password length of 12 characters
- First character of password MUST be a character
- Password must contain at least 1 Lowercase character (a through z)
- Password must contain at least 1 Uppercase character (A through Z)
- Password must contain at least 1 digit (0 through 9)
- Password can contain special character: !*()_+-\[]@~#.,

10. The next step prompts with the path for the Fidelio Night Auditor Report Share directory, the default is: D:MFHOTEL\MFHOTEL. Select Browse to change the default path. The install shield performs the following tasks:
- Creates the following sub directory on the Night Auditor Reports Share directory (for example: D:MFHOTEL\MFHOTEL): \NAReports
- Creates a Windows Share: 1MFHOTEL$ for the Night Auditor Report Share directory. Click Next to continue.
12. Select either the **Professional Edition** or the **Small Business**. Click **Next** to continue.

13. The setup program will create a Start Menu folder: Fidelio Suite8. If you want to create a different folder, select the required program folder from the list or enter the new folder name. Click **Next** to continue.

14. The Fidelio Version Control folders, the Night Auditor Reports Share folder and the Shares are now created.
15. Select the drive where the `DBServer.exe` is located. Default is `C:\Windows\Temp\V8\`

Click OK.

16. Select the path on your hard disk where the Oracle Installation files has been copied to, such as `C:\INSTALL\Oracle12c`. Click Next to continue.

**Note:** After selecting the path where the Oracle Installation files has been copied to, the system checks the directory structure.

- Oracle 64-bit Version, supported on AMD64/EM64T and Intel Processor Chips that adhere to the x86-64 architecture.
• Running 32-bit Oracle Database server on 64-bit OS is not supported.
  If the install wizard cannot find the correct directory structure, a message will be displayed. Verify your selection and check for the right path (CD1, CD2, CD4, CPU …)

17. Select the required database type. The following setup types are available:

• Oracle 12c Database (Preferred)
• Oracle 12c Multitenant Database

  **Note:** The selection of the option: Oracle 12c Multitenant Database requires **“Experience”** with Oracle 12c Multitenent Databases.

• **Architecture Overview**
  A new option for Oracle Database 12c, Oracle Multitenant delivers a new architecture that allows a multitenant container database to hold many pluggable databases. An existing database can simply be adopted with no application changes required. Oracle Multitenant fully complements other options, including Oracle Real Application Clusters and Oracle Active Data Guard.

• **High Consolidation Density**
  The many pluggable databases in a single multitenant container database share its memory and background processes. This enables consolidation of many more pluggable databases compared to the old architecture, offering similar benefits to schema-based consolidation but with none of the major application changes required by that approach.

• **Rapid Provisioning and Cloning Using SQL**
  Creating pluggable databases, moving pluggable databases between containers, and cloning pluggable databases are done with new SQL commands and take just seconds. When the underlying file system supports thin provisioning many terabytes can be cloned almost instantaneously simply by using the keywords “snapshot copy” in the SQL command.

• **New Paradigms for Rapid Patching and Upgrades**
  The investment of time and effort to patch one multitenant container database results in patching all of its many pluggable databases. To patch a single pluggable database, you simply unplug/plug to a multitenant container database at a different Oracle Database software version.

• **Manage Many Databases as One**
  By consolidating existing databases as pluggable databases, administrators can manage many databases as one. For example, tasks such as backup and disaster recovery are performed at the multitenant container database level.
• **Pluggable Database Resource Management**

By consolidating existing databases as pluggable databases, administrators can manage many databases as one. For example, tasks such as backup and disaster recovery are performed at the multitenant container database level.

18. Select the Setup Type, the following options are available:
   - Custom Installation.
   - Laptop Installation

19. If the installation should be a customized configured Oracle database, select the Installation type: **Custom Install**. Use **Laptop Install (small database) for small installation**.

With these options you can define the following parameters:
   - Online Redo Log Path
   - Oracle Tablespace Path
   - NLS_LANG (Character Set)
- National Character Set
- Oracle SID
- V8MAIN tablespace size
- V8CONF tablespace size
- V8LARGE tablespace size
- V8INDEX tablespace size
- V8TEMP tablespace size

**Note:** The Laptop Install (small database) option installs the Oracle Database without ARCHIVE MODE.

20. Enter the Oracle home directory for the Oracle Database C:\ORACLE. Click Next to continue.

21. Select the database import type: Standard demo (English). Click Next to continue.

22. Enter the path for the Online Redo Log files and the Oracle Tablespace files. The default for Online Redo Log files is: D:\ORACLE. The default for Tablespace files is: E:\ORACLE. Click Next to continue.
23. Enter the values for the NLS_LANG (Character Set) of the Oracle Database. The default NLS_LANG (Character Set) is: `AMERICAN_AMERICA.WE8MSWIN1252`. The default National Character Set is: `AL16UTF16`. Enter the value for the Oracle SID of the Oracle Database. The default Oracle SID is: `V8`. Click **Next** to continue.

**Note:** If the installation should support different languages/characters - for example Arabic characters - you need to change the value for NLS_LANG (Character Set) for example: `ARABIC_UNITED ARAB EMIRATES.AR8MSWIN1256`.

The following NLS_LANG values are currently supported:

<table>
<thead>
<tr>
<th>Operating System Locale</th>
<th>NLS_LANG Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arabic (U.A.E.)</td>
<td>ARABIC_UNITED ARAB EMIRATES.AR8MSWIN1256</td>
</tr>
<tr>
<td>Bulgarian</td>
<td>BULGARIAN_BULGARIA.CL8MSWIN1251</td>
</tr>
<tr>
<td>Catalan</td>
<td>CATALAN_CATALONIA.WE8MSWIN1252</td>
</tr>
<tr>
<td>Chinese (PRC)</td>
<td>SIMPLIFIED CHINESE_CHINA.ZHS16GBK</td>
</tr>
<tr>
<td>Chinese (Taiwan)</td>
<td>TRADITIONAL CHINESE_TAIWAN.ZHT16MSWIN950</td>
</tr>
<tr>
<td>Chinese (Hong Kong HKCS)</td>
<td>TRADITIONAL CHINESE_HONG KONG.ZHT16HKSCS</td>
</tr>
<tr>
<td>Chinese (Hong Kong HKCS2001)</td>
<td>TRADITIONAL CHINESE_HONG KONG.ZHT16HKSCS2001</td>
</tr>
<tr>
<td>Croatian</td>
<td>CROATIAN_CROATIA.EE8MSWIN1250</td>
</tr>
<tr>
<td>Czech</td>
<td>CZECH_CZECH REPUBLIC.EE8MSWIN1250</td>
</tr>
<tr>
<td>Danish</td>
<td>DANISH_DENMARK.WE8MSWIN1252</td>
</tr>
<tr>
<td>Dutch (Netherlands)</td>
<td>DUTCH_THE NETHERLANDS.WE8MSWIN1252</td>
</tr>
<tr>
<td>Dutch (Belgium)</td>
<td>DUTCH_belgium.WE8MSWIN1252</td>
</tr>
<tr>
<td>English (United Kingdom)</td>
<td>ENGLISH_UNITED KINGDOM.WE8MSWIN1252</td>
</tr>
<tr>
<td><strong>English (United States)</strong></td>
<td><strong>AMERICAN_AMERICA.WE8MSWIN1252</strong></td>
</tr>
<tr>
<td>English (United States)</td>
<td>AMERICAN_AMERICA.WE8ISO8859P9</td>
</tr>
<tr>
<td>Language</td>
<td>Code</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-------------------------------------------</td>
</tr>
<tr>
<td>English (United States)</td>
<td>AMERICAN_AMERICA.AL32UTF8</td>
</tr>
<tr>
<td>Estonian</td>
<td>ESTONIAN_ESTONIA.BLT8MSWIN1257</td>
</tr>
<tr>
<td>Finnish</td>
<td>FINNISH_FINLAND.WE8MSWIN1252</td>
</tr>
<tr>
<td>French (Canada)</td>
<td>CANADIAN_FRENCH_CANADA.WE8MSWIN1252</td>
</tr>
<tr>
<td>French (France)</td>
<td>FRENCH_FRANCE.WE8MSWIN1252</td>
</tr>
<tr>
<td>German (Germany)</td>
<td>GERMAN_GERMANY.WE8MSWIN1252</td>
</tr>
<tr>
<td>Greek</td>
<td>GREEK_GREECE.EL8MSWIN1253</td>
</tr>
<tr>
<td>Hebrew</td>
<td>HEBREW_ISRAEL.IW/8MSWIN1255</td>
</tr>
<tr>
<td>Hungarian</td>
<td>HUNGARIAN_HUNGARY.EE8MSWIN1250</td>
</tr>
<tr>
<td>Icelandic</td>
<td>ICELANDIC_ICELAND.WE8MSWIN1252</td>
</tr>
<tr>
<td>Indonesian</td>
<td>INDONESIAN_INDONESIA.WE8MSWIN1252</td>
</tr>
<tr>
<td>Italian (Italy)</td>
<td>ITALIAN_ITALY.WE8MSWIN1252</td>
</tr>
<tr>
<td>Japanese</td>
<td>JAPANESE_JAPAN.JA16SJIS</td>
</tr>
<tr>
<td>Korean</td>
<td>KOREAN_KOREA.KO16MSWIN949</td>
</tr>
<tr>
<td>Latvian</td>
<td>LATVIAN_LATVIA.BLT8MSWIN1257</td>
</tr>
<tr>
<td>Lithuanian</td>
<td>LITHUANIAN_LITHUANIA.BLT8MSWIN1257</td>
</tr>
<tr>
<td>Norwegian</td>
<td>NORWEGIAN_NORWAY.WE8MSWIN1252</td>
</tr>
<tr>
<td>Polish</td>
<td>POLISH_POLAND.EE8MSWIN1250</td>
</tr>
<tr>
<td>Portuguese (Brazil)</td>
<td>BRAZILIAN_PORTUGUESE_BRAZIL.WE8MSWIN1252</td>
</tr>
<tr>
<td>Portuguese (Portugal)</td>
<td>PORTUGUESE_PORTUGAL.WE8MSWIN1252</td>
</tr>
<tr>
<td>Romanian</td>
<td>ROMANIAN_ROMANIA.EE8MSWIN1250</td>
</tr>
<tr>
<td>Russian</td>
<td>RUSSIAN_CIS.CL8MSWIN1251</td>
</tr>
<tr>
<td>Slovak</td>
<td>SLOVAK_SLOVAKIA.EE8MSWIN1250</td>
</tr>
<tr>
<td>Spanish (Spain)</td>
<td>SPANISH_SPAIN.WE8MSWIN1252</td>
</tr>
<tr>
<td>Swedish</td>
<td>SWEDISH_SWEDEN.WE8MSWIN1252</td>
</tr>
<tr>
<td>Thai</td>
<td>THAI_THAILAND.TH8TISASCII</td>
</tr>
<tr>
<td>Spanish (Mexico)</td>
<td>MEXICAN_SPANISH_MEXICO.WE8MSWIN1252</td>
</tr>
<tr>
<td>Spanish (Venezuela)</td>
<td>LATIN_AMERICAN_SPANISH_VENEZUELA.WE8MSWIN1252</td>
</tr>
<tr>
<td>Turkish</td>
<td>TURKISH_TURKEY.TR8MSWIN1254</td>
</tr>
<tr>
<td>Ukrainian</td>
<td>UKRAINIAN_UKRAINE.CL8MSWIN1251</td>
</tr>
<tr>
<td>Vietnamese</td>
<td>VIETNAMESE_VIETNAM.VN8MSWIN1258</td>
</tr>
</tbody>
</table>
**Note:** If you want to create an Oracle Database with Multilingual support (UNICODE), please use the NLS_CHARACTER_SET: AL32UTF8 (e.g. AMERICAN_AMERICA.AL32UTF8) and the NLS_NCHAR_CHARACTERSET: AL16UTF16.

24. Enter the size for the Oracle Suite8 tablespace files. The default size for each tablespace is: **2048 (MB)**. Click **Next** to continue.

**Note:** Each Suite8 tablespace file is automatically expanded to 32 GB.
25. If you have **not selected** the **Oracle 12c Multitenant Database** option, the following step requires the complex password to be entered for the Oracle SYS and SYSTEM account. The password is **case sensitive**. Click **Next** to continue.

Complexity requirements are:
- Not to contain the user's account name or parts of the user's full name that exceed two consecutive characters
- Minimum password length of 8 characters
- First character of password MUST be a character
- Password must contain at least 1 Lowercase character (a through z)
- Password must contain at least 1 Uppercase character (A through Z)
- Password must contain at least 1 digit (0 through 9)
- Password can contain special character: !*()-{}@~#.,

26. If you have **selected** the **Oracle 12c Multitenant Database** option, the following step requires the complex password to be entered for the Oracle SYS, SYSTEM and PDBSYS account. The password is **case sensitive**. Click **Next** to continue.

Complexity requirements are:
Not to contain the user's account name or parts of the user's full name that exceed two consecutive characters
- Minimum password length of 8 characters
- First character of password MUST be a character
- Password must contain at least 1 Lowercase character (a through z)
- Password must contain at least 1 Uppercase character (A through Z)
- Password must contain at least 1 digit (0 through 9)
- Password can contain special character: !*()_+-{}[]@~#.,

27. The following step requires the complex password to be entered for the Oracle CTXSYS and SUITE8 Analyzer account. Click Next to continue.

Complexity requirements are:
- Not to contain the user's account name or parts of the user's full name that exceed two consecutive characters
- Minimum password length of 8 characters
- First character of password MUST be a character
- Password must contain at least 1 Lowercase character (a through z)
- Password must contain at least 1 Uppercase character (A through Z)
- Password must contain at least 1 digit (0 through 9)
- Password can contain special character: !*()_+-{}[]@~#.,
Note: The Oracle user account CTXSYS is required for the Oracle Database feature: Oracle Text.

28. The following step requires the complex password to be entered for the Oracle DBSNMP account. The password is case sensitive. Click Next to continue.

Complexity requirements are:
- Not to contain the user's account name or parts of the user's full name that exceed two consecutive characters
- Minimum password length of 8 characters
- First character of password MUST be a character
- Password must contain at least 1 Lowercase character (a through z)
- Password must contain at least 1 Uppercase character (A through Z)
- Password must contain at least 1 digit (0 through 9)
- Password can contain special character: !*()_+~!@#$,,
Note: The Management Agent of Database Control uses the DBSNMP account to monitor and manage the database. The Database Control uses the SYSMAN account to perform the Database administration tasks.

29. The following step requires the user and complex passwords to be entered to create the Suite8 live/Suite8 Archive live database account. The password is **case sensitive**. Click **Next** to continue.

Complexity requirements are:
- Not to contain the user's account name or parts of the user's full name that exceed two consecutive characters
- Minimum password length of 8 characters
- First character of password **MUST** be a character
- Password must contain at least 1 Lowercase character (a through z)
- Password must contain at least 1 Uppercase character (A through Z)
- Password must contain at least 1 digit (0 through 9)
- Password can contain special character: "+|*%()_~-@#$,."

Note: We are creating the Oracle user account: **V8LIVE** with the complex password. In addition we also creating a Oracle user account: **V8LIVEARC** with the complex password. This user account is required for the SUITE8 Archive functionality.

30. The next step is similar to the previous step, but requires the username and complex passwords to create the Suite8 training/Suite8 Archive training database account. The password is **case sensitive**. Click **Next** to continue.

Complexity requirements are:
- Not to contain the user's account name or parts of the user's full name that exceed two consecutive characters
- Minimum password length of 8 characters
- First character of password **MUST** be a character
- Password must contain at least 1 Lowercase character (a through z)
- Password must contain at least 1 Uppercase character (A through Z)
- Password must contain at least 1 digit (0 through 9)
- Password can contain special character: !*()-+[{|}@~#.,

Note: We are creating the Oracle user account: V8TRAIN with the complex password. In addition we also creating a Oracle user account: V8TRAINARC with the complex password. This user account is required for the SUITE8 Archive functionality.

31. The following step requires the complex password to be entered for the Windows User account (Suite8.Scheduler) for the SUITE8 Maintenance jobs. The password is case sensitive. Click Next to continue.

Complexity requirements are:
- Not to contain the user's account name or parts of the user's full name that exceed two consecutive characters
- Minimum password length of 12 characters
- First character of password MUST be a character
- Password must contain at least 1 Lowercase character (a through z)
- Password must contain at least 1 Uppercase character (A through Z)
- Password must contain at least 1 digit (0 through 9)
- Password can contain special character: !*()-+[{|}@~#.,
32. If you want to use ‘Encrypted Passwords’ for the maintenance scripts, which are created during the Oracle database setup routine – click YES to continue. The default is: NO.

The setup program now installs the Oracle Database and the Patch for the Oracle Database, creates the Suite8 instance and imports the Suite8 demo schema.
33. After the installation of the Oracle Database the install shield performs the following tasks:

- Creates the following directories on the MAINTENANCE drive (for example: D:\):
  
  \BACKUP
  \BACKUP.RMAN\SCRIPTS
  \BACKUP.RMAN\LOG
  \EXP\DAILY

- Copies the maintenance scripts to the directory: \BACKUP.RMAN\SCRIPTS

- Creates the Windows user account: Suite8.Scheduler and adds the Windows user: Suite8.Scheduler to the local group: ADMINISTRATORS

Modifying the environment parameters for the Oracle Recovery Manager (RMAN)

- Oracle RMAN Backup files are located in the directory: \BACKUP
- Maintenance scripts are located in the directory: \BACKUP.RMAN\SCRIPTS
- Maintenance log files are located in the directory: \BACKUP.RMAN\LOG

Creating 5 scheduled jobs:

- SUITE8 db schema analyze
  Every day at 2:15 am the scheduled task is running the DBMS_STATS package to collecting statistics for all tables and indexes of the V8LIVE user.

- SUITE8 db clean log files
  Every day at 0:05 am the scheduled task is cleaning the Oracle Dump folders, creating a copy of the Database Alert file and creating a copy of the LISTENER Log file.

- RMAN backup database
  Every day at 11:00 pm the scheduled task is creating a complete backup of the Oracle Database via Oracle Recovery Manager (RMAN). After this the scheduled task is deleting all Oracle Database Backups – older than the latest successfully Oracle Database Backup.

- RMAN backup archive
  Every 3 hours the scheduled task is creating a backup of all Oracle Database Archives - via Oracle Recovery Manager (RMAN) - which are not backed up for 2 times. After this the scheduled task is deleting all Oracle Archive Backups – older than the latest successfully Oracle Database Backup.

- RMAN maintenance
  Every day at 09:15 pm the scheduled task is checking the Oracle Database/Archive Backups via Oracle Recovery Manager (RMAN). The Task is looking for obsolete and not existing Backups and deleting not required Oracle Archives

34. The Oracle Database install shield wizard prompts a message upon completion. Click OK to continue.
35. The following step will show an overview of the Oracle Database installation. Please save the document. After closing the Text file, the file will be deleted! Close the file to continue.

36. Click Finish to exit the Fidelio Suite8 Oracle Database Install shield Wizard.

37. Click Finish to exit the Install shield Wizard.
Activation of Oracle Wallet

The section Activating Oracle Wallet contains detailed information.

Oracle 12cR1/12cR2 Database:

1. Open a command prompt (with the option Run as administrator).
   Type the following commands to start the Oracle Database Control Service:
   SET ORACLE_UNQNAME=V8
   SET ORACLE_SID=V8
   emctl start dbconsole

2. Open the Internet Explorer and access the Database Control Console by using the URL:
Enable the Firewall

After the installation, it is necessary to enable the Windows Firewall and the UAC (User Account Control) again.

1. Open a command prompt (with the option Run as administrator and type firewall.cpl) to launch the Firewall Configuration utility.
2. In the Firewall Control Panel, click Turn Windows Firewall on or off (upper left hand corner of the window).
3. Select Turn on Windows Firewall in the Windows Firewall Settings window and click OK to save the changes.
4. Close the Firewall Configuration utility.

5. Enter the following commands to add the Oracle 12cR2 Executable and Oracle Listener IP Port to the Firewall:
   
   ```
   cd /D c:\windows\system32
   netsh advfirewall firewall add rule name="Oracle TNSLSNR Port" dir=in action=allow protocol=TCP localport=1521
   
   netsh advfirewall firewall add rule name="Oracle TNSLSNR Executable" dir=in program="c:\oracle\12.2.0\database\bin\tnslsnr.exe" action=allow profile=any
   
   netsh advfirewall firewall add rule name="Oracle RDBMS Kernel Executable" dir=in program="c:\oracle\12.2.0\database\bin\oracle.exe" action=allow profile=any
   
   Note: The program path depends on the directory for the Oracle Home during the Installation (for example: C:\ORACLE\12.2.0\DATABASE).
   ```

6. Enter the following commands to add the Oracle 12cR1 Executable and Oracle Listener IP Port to the Firewall:
   
   ```
   cd /D c:\windows\system32
   netsh advfirewall firewall add rule name="Oracle TNSLSNR Port" dir=in action=allow protocol=TCP localport=1521
   
   netsh advfirewall firewall add rule name="Oracle TNSLSNR Executable" dir=in program="c:\oracle\12.1.0\database\bin\tnslsnr.exe" action=allow profile=any
   
   netsh advfirewall firewall add rule name="Oracle RDBMS Kernel Executable" dir=in program="c:\oracle\12.1.0\database\bin\oracle.exe" action=allow profile=any
   
   Note: The program path depends on the directory for the Oracle Home during the Installation (for example: C:\ORACLE\12.1.0\DATABASE).```
Enable User Access Control

1. Start the User Access Control Configuration Assistant by typing the following command:

   ```
   cd \windows\system32
   useraccountcontrolsettings.exe
   ```

2. Turn on the notification by changing the UAC to Default. Click OK to save the changes.

Change the User Access Rights for the Oracle Database files

1. Open a command prompt (with the option Run as administrator).

   Type the following commands for Oracle 12cR2 Database:
   ```
   cd c:\oracle\12.2.0\database\network\admin\*
   icacls c:\oracle\12.2.0\database\network\admin\* /grant Users:F /T /C
   ```

   Type the following commands for Oracle 12cR1 Database:
   ```
   cd c:\oracle\12.1.0\database\network\admin\*
   icacls c:\oracle\12.1.0\database\network\admin\* /grant Users:F /T /C
   ```
Change System Environment for Oracle Database (64-bit) & Oracle Client (32-bit)

1. If you install the Oracle Database (64-bit) on a Windows 64-bit Windows System and additionally the Oracle Client (32-bit) – the following changes are required:

2. Open a command prompt (with the option `Run as administrator`) and type the following commands to open the System Properties utility:

```
cd /D c:\windows\system32
sysdm.cpl
```
3. Under the Advanced tab, click the Environment Variables button.

4. Select Environment Variables and modify the PATH variable into the SYSTEM ENVIRONMENT. The ORDER of the directories should be:
   C:\ORACLE\1x.x.0\DATABASE\bin;C:\ORACLE\1x.x.0\CLIENT;%SYSTEMROOT%...

5. Click OK to save the changes. Close the System Properties utility.
6. Check the functionality by typing the following commands:

   `cd /D C:\ORACLE\1x.x.0\CLIENT\BIN`
   `tnsping V8`
As a result, the Oracle Client should use the Net8 files from the Oracle Database.
(Used parameter files: C:\ORACLE\1.x.0\DATABASE\network\admin\sqlnet.ora)
Using Suite8 Database Server Shares

**Note:** If the Suite8 Environment is **NOT** using a Domain Controller, you can proceed with the following steps for Suite8 Version Control and Shared Suite8 Night Auditor Reports.

1. During the Suite8 Database Installation the Install shield has created two Windows Shares (VersionCtrl$ and 1MFHOTEL$) and one Windows user account (Suite8.VerCtrl) for using with Suite8 Version Control and Night Auditor Reports Share.

2. To use the Suite8 Version control, please create a script: V8VERSIONCTRL.CMD and place the script on the Public Desktop. The script should have the following content:

```
@ECHO OFF
@net use v: \<SUITE8_DB_SERVER>\VERSIONCTRL$ /User:Suite8.VerCtrl <secure password> /persistent:no
@v:\versionctrl\VarCtrl\V8.exe v:\versionctrl\VarCtrl.INI
@net use v: /delete /yes
```

**Note:** The Parameter `<SUITE8_DB_SERVER>` depends on the used Oracle Server Name for the Suite8 Database Server. The parameter `<complex password>` depends on the used user account password.

3. Run the script for testing. If the system is asking for Login credentials, please enter as Login name: Suite8.VerCtrl and the secure password. Mark the option: **Remember my credentials**.
4. If the Suite8 Version detects missing Suite8 program files, the files will be copied to the local folder.

![Suite8 Version Control](image)

Copy from:
\DE-B-AC-WIN8\VersionCtrl\PROGRAMS\FidelioCalendar.dll

To:
C:\FIDELIO\PROGRAMS\FidelioCalendar.dll

5. For using the Night Auditor Reports Share for the Suite8, open a command prompt and type the following command.

```
cd /D c:\
```

**Note:** The Parameter `<SUITE8_DB_SERVER>` depends on used Oracle Server Name for the Suite8 Database Server.

![Command Prompt](image)

6. After the command is completed successfully, check the created drive mapping. Type the following command:

```
net use
```
7. Login to Suite8 and modify the location for the Suite8 Night Auditor Reports. Go to **Setup > Configuration > Global Settings > Night Audit.** Modify the REPORT STORAGE PATH to: J:\NAReports.
6 Suite8 Install Shield - Install Oracle Server Maintenance Jobs

1. Select Oracle Server Maintenance Jobs Installation and click Next to continue.

2. The Oracle Server Maintenance Jobs Wizard is launched. Select the Oracle Database version. Click Next to continue.
3. Select the required database type. The following setup types are available:
   - Oracle 12c Database (Preferred)
   - Oracle 12c Multitenant Database

4. Enter the Oracle home directory for the Oracle Database. The default is: C:\ORACLE. Click Next to continue.
   The ORACLE_HOME Destination depends on the selected Oracle Database version.

   **Example:** For the **Oracle Database Version 12.2.0.x**, the install shield uses C:\ORACLE\12.2.0\DATABASE as ORACLE_HOME.
5. Enter the value for the Oracle SID of the Oracle Database. The default Oracle SID is: V8. Click Next to continue.
6. Enter the destination for the Oracle Database Maintenance. The default is: D:\. Click **Next** to continue.

![Oracle Hospitality Suite8 Property Oracle Maintenance Setup dialog box]

7. If you have **not selected** the **Oracle 12c Multitenant Database** option, the following step requires the complex password to be entered for the Oracle SYS and SYSTEM account. The password depends on the installed Oracle Database. The password is **case sensitive**. Click **Next** to continue.

Complexity requirements are:

- Not to contain the user's account name or parts of the user's full name that exceed two consecutive characters
- Minimum password length of 8 characters
- First character of password MUST be a character
- Password must contain at least 1 Lowercase character (a through z)
- Password must contain at least 1 Uppercase character (A through Z)
- Password must contain at least 1 digit (0 through 9)
- Password can contain special character: !*()-+{[}]@~#,
8. If you have selected the **Oracle 12c Multitenant Database** option, the following step requires the complex password to be entered for the Oracle SYS, SYSTEM and PDBSYS account. The password is **case sensitive**. Click **Next** to continue.

Complexity requirements are:

- Not to contain the user’s account name or parts of the user’s full name that exceed two consecutive characters
- Minimum password length of 8 characters
- First character of password MUST be a character
- Password must contain at least 1 Lowercase character (a through z)
- Password must contain at least 1 Uppercase character (A through Z)
- Password must contain at least 1 digit (0 through 9)
- Password can contain special character: !*()-+{[}~#.,
9. The following step requires the complex password to be entered for the Oracle CTXSYS and SUITE8 Analyzer account. The password is case sensitive. Click Next to continue.

Complexity requirements are:

- Not to contain the user's account name or parts of the user's full name that exceed two consecutive characters
- Minimum password length of 8 characters
- First character of password MUST be a character
- Password must contain at least 1 Lowercase character (a through z)
- Password must contain at least 1 Uppercase character (A through Z)
- Password must contain at least 1 digit (0 through 9)
- Password can contain special character: !*()-+[]@~#,
Note: The Oracle user account CTXSYS is required for the Oracle Database feature: Oracle Text.

10. The following step requires the user and complex passwords to be entered to run maintenance tasks logged on as Suite8 live/Suite8 Archive live user. The password is case sensitive. Click Next to continue.

Complexity requirements are:

- Not to contain the user’s account name or parts of the user’s full name that exceed two consecutive characters
- Minimum password length of 8 characters
- First character of password MUST be a character
- Password must contain at least 1 Lowercase character (a through z)
- Password must contain at least 1 Uppercase character (A through Z)
- Password must contain at least 1 digit (0 through 9)
- Password can contain special character: !"_+-[ ]@~#,
Note: We are creating the Oracle user account: V8LIVE with the complex password. In addition we also creating a Oracle user account: V8LIVEARC with the complex password. This user account is required for the SUITE8 Archive functionality.

11. The next step is similar to the previous step, but requires the username and complex passwords to run maintenance tasks logged on as Suite8 training/SUITE8 Archive training user. The password is case sensitive. Click Next to continue.
Complexity requirements are:

- Not to contain the user's account name or parts of the user's full name that exceed two consecutive characters
- Minimum password length of 8 characters
- First character of password MUST be a character
- Password must contain at least 1 Lowercase character (a through z)
- Password must contain at least 1 Uppercase character (A through Z)
- Password must contain at least 1 digit (0 through 9)
- Password can contain special character: !*()_+{][}@~#.,

Note: We are creating the Oracle user account: V8TRAIN with the complex password. In addition we also creating a Oracle user account: V8TRAINARC with the complex password. This user account is required for the SUITE8 Archive functionality.

12. The following step requires the complex password to be entered for the Windows User account (Suite8.Scheduler) for the SUITE8 Maintenance jobs. The password is case sensitive. Click Next to continue.

Complexity requirements are:

- Not to contain the user's account name or parts of the user's full name that exceed two consecutive characters
- Minimum password length of 12 characters
- First character of password MUST be a character
- Password must contain at least 1 Lowercase character (a through z)
- Password must contain at least 1 Uppercase character (A through Z)
- Password must contain at least 1 digit (0 through 9)
- Password can contain special character: !*@()_-.+[{]}@~#,

13. If you want to use ‘Encrypted Passwords’ for the maintenance scripts – click **YES** to continue. The default is: **NO**.

14. The install shield performs the following tasks:
   Creates the following directories on the MAINTENANCE drive (for example: D:\):
   \BACKUP
   \BACKUP.RMAN\SCRIPTS
   \BACKUP.RMAN\LOG
   \EXP\DAILY
   Copies the maintenance scripts to the directory: \BACKUP.RMAN\SCRIPTS
   Creates the Windows user account: Suite8.Scheduler and adds the Windows user: Suite8.Scheduler to the local group: **ADMINISTRATORS**.
   Modifying the environment parameters for the Oracle Recovery Manager (RMAN)

   Oracle RMAN Backup files are located in the directory: \BACKUP
Maintenance scripts are located in the directory: `\BACKUP.RMAN\SCRIPTS`
Maintenance log files are located in the directory: `\BACKUP.RMAN\LOG`

Creating 5 scheduled jobs:

- **SUITE8 db schema analyze**
  Every day at 2:15 am the scheduled task is running the DBMS_STATS package to analyze all tables and indexes of the V8LIVE user.

- **SUITE8 db clean log files**
  Every day at 0:05 am the scheduled task is cleaning the Oracle Dump folders, creating a copy of the Database Alert file and creating a copy of the LISTENER Log file.

- **RMAN backup database**
  Every day at 11:00 pm the scheduled task is creating a complete backup of the Oracle Database via Oracle Recovery Manager (RMAN). After this the scheduled task is deleting all Oracle Database Backups – older than the latest successfully Oracle Database Backup.

- **RMAN backup archive**
  Every 3 hours the scheduled task is creating a backup of all Oracle Database Archives - via Oracle Recovery Manager (RMAN) - which are not backed up for 2 times. After this the scheduled task is deleting all Oracle Archive Backups – older than the latest successfully Oracle Database Backup.

- **RMAN maintenance**
  Every day at 09:15 pm the scheduled task is checking the Oracle Database/Archive Backups via Oracle Recovery Manager (RMAN). The Task is looking for obsolete and not existing Backups and deleting not required Oracle Archives.
The following step shows an overview of the Oracle Maintenance installation. Please save the document. After closing the Text file, the file will be deleted! Close the file to continue.

1. The Oracle Database Maintenance Jobs install shield prompts a finish message upon completion. Click Finish to continue.

2. Click Finish to exit the Install shield Wizard.
Suite8 Install Shield - Install Oracle Server Maintenance Jobs

Verify Scheduled Tasks

1. Open a command prompt (with the option Run as administrator) and type `taskschd.msc` to launch the Task Scheduler utility.

![Task Scheduler](image1.png)

2. Verify that the 5 listed Jobs are existent.
   - SUITE8 db schema analyze
   - SUITE8 db clean log files
   - RMAN backup database
   - RMAN backup archive
   - RMAN maintenance

![Task Scheduler](image2.png)
3. Close the Task Scheduler utility
Suite8 Install Shield - Appendix (Tips&Tricks, Q&A, Issues…)

Message “MSVCR100.dll not found” during start of Suite8:
You may refer to the links below to download Microsoft Visual C++ Redistributable.

For 64-bit, refer to this link: http://www.microsoft.com/download/en/details.aspx?id=14632

Download and run for the related OS 32 or 64-bit.
If you use Suite8 –Client with 64-bit OS, you also need to run the 32-bit one.
Before you upgrade Suite8 you must:

- Confirm that the database complies with release 8.10.0 and higher.
- Export the V8LIVE user, the Export & Import Suite8 User section contains more information.
- If upgrading from Suite8 8.10.0, enter a note category for Financial Account notes:
  1. Go to the Setup and select the Configuration option.
  2. From the Note Categories menu, enter a new category for Financial Accounts.

You must configure this option before updating Suite8, during the update a script updates the corresponding records in XCNO. The Oracle Hospitality Suite8 Release Notes for Release 8.10.1.0 contain more information, review the items marked with TT 6874 and TT 18678 for more details.
The Suite8 Upgrade Tool is included with each release started with the Suite8 release 8.10.1 and higher. You can use the Upgrade Tool for upgrades from release 8.10 and higher.

Follow the steps below to complete the upgrade process or you can use the InstallShield Wizard to complete specific steps to update the Suite8 application.

Using the InstallShield Wizard you can:
- Upgrade to 8.10.1 and higher.
- Upgrade the Suite8 database on the server and the client applications.
- Create shortcuts for the Suite8 Installer.
- Run certain SQL statements for system maintenance.

Use version control (VerCtrl) to distribute programs and HTML files to other clients.

**Upgrading Suite8 Release 8.10.2 and higher**

Follow these steps to upgrade from release 8.10.x to 8.10.2 and higher.

1. Log in and download the Suite8 version 8.14 from the following URL: [https://edelivery.oracle.com/](https://edelivery.oracle.com/)
2. Right-click the `Suite8InstUpgrade.exe` file and select run as administrator.
3. On the InstallShield, select Next to begin the upgrade process.
4. Read the Important Notes and select Next.
5. Select one of the following options, and then select Next.
   - Select Run Upgrade to start the upgrade process.
   - Select the Install Upgrade to install the application. A shortcut appears on your desktop to start the InstallShield Wizard from the desktop at a later time.
6. Select **Next** and **Browse** to select the folder to install the program files. During the installation process, the InstallShield Wizard checks if the target folder is empty. If the folder does not exist, the InstallShield Wizard creates the folder and then copies the files to the folder.

For example, the default folder for these upgrade files:

```
C:\FIDELIO\UPGRADE
```

7. If you select the **Install Upgrade (can be executed later)** option to install the Suite8 application but do not want to start the installation process, click **Finish** to close the window. The upgrade program installs a shortcut on the desktop. When you decide to start the update later, double-click on this shortcut and follow the instructions below.

If you select **Run Upgrade**, follow the next steps.
8. Select a connection and click **OK**. The connections that appear are the shortcuts to start Suite8. You must select the correct connection, for example **Oracle Hospitality Suite8 Property Live.Ink** for the live production system and select **OK**. If there is just one connection, the screen below does not appear and the next screen appears.

If no connection appears, you may need to create a new shortcut. The **Appendix** section below contains more information.

![Select Connection](image)

**Updating the Suite8 Database**

You can use the database upgrade option to upgrade the database during the Suite8 application upgrade or you can upgrade the database at any time using the InstallShield Wizard and selecting the D/B Update option.

To update the database:

1. Go to the database server and log in as system administrator.
2. Run the InstallShield Wizard and select the D/B Update option.
3. The progress is shown in the main window. Log files are created for reference in the same directory with the following naming convention:

```
8_10_0_0_to_8_10_1_0.sql.log
```

In addition to the scripts in the UpgradeScripts folder, any scripts located in a subfolder named with the target version are executed, for example `8_10_0_20`.

For each file executed a log file is created in the same directory. The naming convention is similar to the update log files. For example:
Upgrading the Suite8 Application

1. Select Program Update to start updating the Suite8 application.

The progress appears in the main window. The program files and HTML files are copied to the dedicated folders.

2. After the update completes, select OK to confirm the successful update.

For example:

Installing the SQL Scripts

You should only select the Run SQL-Script option with the advice of an Oracle support representative. For example, you may execute a script for a patch update for a specific customer or you
may need to install a country legal requirement using a script. You may need to run a script for system maintenance or to install a specific chain requirement.

1. To run a script, select the **Run SQL Script** option.

2. The Microsoft Windows Explorer window opens and contains the default scripts.
To install country specific scripts, go to the folder that contains the additional scripts and double-click the script.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>File folder</td>
</tr>
<tr>
<td>Germany</td>
<td>File folder</td>
</tr>
<tr>
<td>Italy</td>
<td>File folder</td>
</tr>
<tr>
<td>Poland</td>
<td>File folder</td>
</tr>
</tbody>
</table>

After the scripts get installed, the status appears in the window and a log file is created in the same folder as the script.

3. Click Exit.
4. Click **Yes** to exit.

5. If you have started the upgrade from the InstallShield Wizard, click **Finish** to close the window.
The following list contains possible issues and solutions for the Upgrade Tool.

**Issue: Error Message Cannot decrypt password**

This message indicates the installed Suite8 version is earlier than Suite8 release 8.10. You must update to Suite8 release 8.10 or higher and create new shortcut.

![Error Message](image)

**Issue: Button for D/B-Update or Program Update is grayed out.**

If the Suite8 version installed is lower than release 8.10 or the version is already up-to-date.

To solve this update Suite8 to release 8.10 and start the InstallShield Wizard to try again.
If Suite8 is up-to-date, then click Exit. The installed program Client Release version and the D/B Release database version appears in the main window.
Issue: The select connection screen is empty

If the Suite8 shortcuts do not appear on the connection screen, then you must create a new shortcut using the New option.
1. On the Edit Connection Parameters window, review and define the following fields.

   - **Database Name**: The default database name is V8.
   - **User Name**: Define the user name of the Oracle user. The default user name for live instances is V8LIVE, and for training instances is V8TRAIN.
   - **Password**: Enter the password for the Oracle user.
   - **Encrypt Password**: By default, the checkbox is checked to maintain a secure system.
   - **HTML Path**: The default location is C:\FIDELIO\HTML.
   - **Fidelio Program Path**: The default location is C:\FIDELIO\PROGRAMS.
   - **Default Location**: Select the path for the program files.
   - **Shortcut Location**: Select the default location where the shortcut should appear.
   - **Public Desktop** or **Public Start menu**: Select the Public Desktop or Public Start menu to create a shortcut icon to appear for the current user.
   - **Test**: Click Test to check the database connection.

2. Define the **Database Name**. The default database name is V8.
3. Define the user name of the Oracle user. The default user name for live instances is V8LIVE, and for training instances is V8TRAIN.
4. Enter the password for the Oracle user.
5. Encrypt Password: To maintain Oracle security standards you must encrypt the password. By default, the checkbox is checked to maintain a secure system.
6. The path where the HTML and query files are located. The default location is C:\FIDELIO\HTML.
7. Select the path for the program files, the default location is C:\FIDELIO\PROGRAMS.
8. Select the default location where the shortcut should appear.
9. Select the **Public Desktop** or **Public Start menu** to create a shortcut icon to appear for the current user.
10. Click **Test** to check the database connection.
If you get an error message below, review your entries and try again.

![Error message]

If the connection is valid, this message below appears.

![Information message]

11. Click **OK** to finish. A Suite8 shortcut is created on the desktop. Click **Exit** to close the InstallShield Wizard.
10 Suite8 Upgrade Tool - Installing the Suite8 ini File

The Suite8 release 8.10 and higher requires an ini file for startup and you must modify all the Suite8 shortcuts. Suite8 will not start without the *.ini file.

- The release includes the sample file v8live.ini. You can find the media package in the folder Suite8INI.
- The *.ini file contains all the database connection details including the HTML path and a parameters section that contains the required runtime parameters you can add.
- To enable all keys expecting a boolean value you can set the value to true, 1, or ON. To disable a key you can set the value to either false, 0, or OFF.
- You must name the *.ini file the same as the connected schema user. For example, V8live. This simplifies creating shortcuts for different users using the same program files. For example, this simplifies a CRS environment and enables the support to maintain a generic structure.
- The *.ini file must be added in the shortcut. For example, the shortcut properties:
  C:\Fidelio\programs\fideliov8.exe C:\Fidelio\v8live.ini
- If the installation uses the automatic night audit, you can use the command line. To access the command line go to the Setup menu, select Configuration, Global Settings, and then select Night Audit to configure the new startup parameters.
- Using the DPAPI requires encryption key management per user or workstation. The Oracle user password contained in the ini file must be encrypted by running the FidelioV8DBPasswordEncrypt.exe file included in the 8.11 release. This encryption file must run on each workstation. You cannot run the encryption process once and then use the same the ini file everywhere.

Installing the ini File and Updating Shortcuts

You must complete the following steps to install the ini file and create a shortcut.

1. Run the V8-Client-Short-Cut.exe file and click Next.
2. Review the information and click Next.
3. Select the setup type and click Next.
4. Verify the destination folder and click Next.
5. Verify the program icons folder and click Next.
6. Enter the Suite8 live user, password, and service. You must enter a password with 8 characters, and click Next.
7. Select Yes to change the password or select No to continue without changing the password.
8. Enter the Suite8 training user, password, and service.
9. Click Next and Finish.
After upgrading Suite8 you must:

1. Run the sequence fix Suite8 > Setup > Miscellaneous > System Maintenance > Database > Sequence Fix.
2. To execute the primary key existence check the key existence to confirm no primary keys are missing except for MFWW, WLNR, WNEB, and STAB.
3. Go to Suite8 > Setup > Miscellaneous > System Maintenance > Miscellaneous > System Check > Database > select Primary key existence > press Execute sel.
4. To update the translation import the translation file provided by the local office. Go to Suite8 -> Setup -> Miscellaneous -> Updates -> Translation Update
5. If you are updating an existing Online Interface installation, you must first uninstall and then reinstall the interface by using the new Online Interface InstallShield Wizard included in this release.
6. The tray icon of the Fidelio Server is not visible when running as a service on a Microsoft Windows 2008 server. This is due to changes in the operating system, you can read about the workaround in the following location:

7. To configure and manage FTP accounts in Suite8, review the FTP connection settings in applicable functions including the Scheduled Task File Upload to implement the new features added from release 8.9.6.0 and higher. This is similar to common FTP clients.
9. Verify the version of Oracle installed is one of the following:
   - Oracle 11g release 2 11.2.0.3 or 11.2.0.4 with latest Oracle Patch for the database installation (64bit) and client installation (32bit) or
   - Oracle 12c release 1 12.1.0.1 or 12.1.0.2 with latest Oracle Patch for the database installation (64bit) and client installation (32bit).
   - You must install Oracle 11g release 2 with the parameter setting compatible=10.2.0.4.
10. When installing the 8.10 release of webConnect, if the following error appears you can follow the instructions below to resolve the error.

    To resolve this error, go to the bin folder and delete the two files below. For example, C:\inetpub\wwwroot\V8Client\bin

    ![System.Web.Razor.dll](image1)
    ![System.Web.WebPages.Razor.dll](image2)

Server Error in /V8Client\Application.

File not found.

Description: An unhandled exception occurred during the execution of the current web request. Information regarding the origin and location of the exception can be identified using the exception stack trace below.

```
<br>
To resolve this error, go to the bin folder and delete the two files below. For example, C:\inetpub\wwwroot\V8Client\bin <br><br>![System.Web.Razor.dll](image1) 09.07.2013 10:05 Application extension 36 kb <br>![System.Web.WebPages.Razor.dll](image2) 09.07.2013 10:05 Application extension 39 kb
```
12 Activating Oracle Wallet

You must complete the following steps to activate the Oracle Wallet.

1. Create a folder for the wallet in the Oracle base directory. For example, C: \ ORACLE \ ADMIN \ V8 \ WALLET

2. Add the entry below to SQLNET.ORA. For example, find the 12.2 SQLNET.ORA file in this location: C: \ oracle \ 12.2.0 \ DATABASE \ network \ admin

   ->DIRECTORY
   You must change the path to the WALLET folder created in the previous step.

   ENCRYPTION_WALLET_LOCATION = (SOURCE =
   (METHOD = FILE)
   (METHOD_DATA =
   (DIRECTORY =
   C: \ ORACLE \ ADMIN \ V8 \ WALLET)))

3. Restart the database.

4. Connect as sys and execute the following statement to set the encryption key. Replace PLACE_YOUR_PASSWORD_HERE with the encryption key and keep this key in a safe place.

   ALTER SYSTEM SET ENCRYPTION KEY IDENTIFIED by
   "PLACE_YOUR_PASSWORD_HERE";

5. To open Oracle Wallet and activate global encryption:

   ALTER SYSTEM SET ENCRYPTION WALLET OPEN IDENTIFIED BY
   "PLACE_YOUR_PASSWORD_HERE";

6. Connect to live schema. For example, V8LIVE and execute the statements below.

   ALTER TABLE wppt MODIFY (wppt_value ENCRYPT USING 'AES256' SALT);
   ALTER TABLE xccs MODIFY (xccs_number ENCRYPT USING 'AES256' SALT);

7. Each restart of the database requires opening the wallet again.

   ALTER SYSTEM SET WALLET OPEN IDENTIFIED by
   "PLACE_YOUR_PASSWORD_HERE";

8. Useful Tips:
   • To check the status connect as sys: SELECT * FROM V$ENCRYPTION_WALLET;
   • To close the wallet for testing purposes: ALTER SYSTEM SET ENCRYPTION WALLET CLOSE IDENTIFIED by "PLACE_YOUR_PASSWORD_HERE";

9. Security Guidelines: In order to fulfill the PA-DSS Certification 3.1 the protected data (XCCS->XCCS_NUMBER and WPRT->WPRT_VALUE) will be encrypted with Oracle Wallet. If Oracle Wallet is not active or the fields are not encrypted, Suite 8 will not start and the message 'Please activate the oracle wallet' will appear.

   The Oracle Wallet functionality that complies with PA-DSS 3.1 is not supported with Oracle 10g. The Post-Upgrade Tasks section contains more information.
What Is Data Pump Export?

Data Pump Export invoked with the expdp command which is a new utility included in the Oracle Database 10g. Although the functionality and parameters are similar to those of the original Export utility exp. These are separate utilities and their files are not compatible.

Data Pump Export is a utility for unloading data and metadata into a set of operating system files called a dump file set. The dump file set can be imported only by the Data Pump Import utility. You can import the dump file set on the same system or you can move the files to another system and load the dump file set.

The dump file set contains one or more disk files that contain table data, database object metadata, and control information. The files are written in a proprietary binary format. During an import operation, the Data Pump Import utility uses these files to locate each database object in the dump file set.

Because the dump files are created by the server and not by the client, the database administrator (DBA) must create directory objects.

Data Pump Export enables you to specify that a job should move a subset of the data and metadata, as determined in the export mode by using data filters and metadata filters specified in the Export parameters.

The following URL contains more information in the Filtering During Export Operations section: https://docs.oracle.com/cd/B19306_01/server.102/b14215/dp_export.htm

Activating the Data Pump

1. Create a folder on the database server for the data pump. For example, D:\EXP\DAILY
2. Create a directory with the database and grant access to the directory. Connect as sys and execute the following statements:
   CONNECT sys/password@ALIAS as sysdba
   CREATE OR REPLACE DIRECTORY dpump_dir AS 'd:\FOLDER';
   Replace FOLDER with the name of the directory you created in the previous step.
   GRANT READ, WRITE ON DIRECTORY dpump_dir TO public;
   To check which directory exists in the database use the following command.
   SELECT * FROM DBA_DIRECTORIES;
Exporting using the Data Pump EXPDP.exe

The export process on the server and can start from every connected workstation. The files export to the directory defined as dpump_dir in the example below.

Use the following command to execute the Data Pump export and refer to the listed explanations below for each parameter.

```
EXPDP USER/PASSWORD@ALIAS DIRECTORY=dpump_dir DUMPFILE=DUMPFILENAME.dmp PARALLEL=1 LOGFILE=LOGFILENAME.log ENCRYPTION_PASSWORD=ThePassWordForEncryption ENCRYPTION_MODE=password VERSION=12.1.0.1
```

<table>
<thead>
<tr>
<th>Field</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXPDP</td>
<td>Executable</td>
</tr>
<tr>
<td>USER/PASSWORD@ALIAS:</td>
<td>Oracle user connect information, for example V8LIVE/live@V8</td>
</tr>
<tr>
<td>DIRECTORY=dpump_dir:</td>
<td>The Oracle dpump_dir directory contains the export. The Oracle database settings contain the path to the directory.</td>
</tr>
<tr>
<td>DUMPFILE=DUMPFILENAME.dmp</td>
<td>DUMPFILENAME.dmp defines the name of the dump file.</td>
</tr>
<tr>
<td>PARALLEL=1</td>
<td>Defines how many processes are used during the export. Increasing the number of processes creates a faster export. This affects the performance of Suite8. You must use more than one process only when no one is using the Suite8 application.</td>
</tr>
<tr>
<td>ENCRYPTION_PASSWORD</td>
<td>You can set the ThePassWordForEncryption value. You must use the same value during the import process.</td>
</tr>
<tr>
<td>ENCRYPTION_MODE=password</td>
<td>Do not change this value.</td>
</tr>
</tbody>
</table>
VERSION=12.1.0.1

Use this parameter to enhance the backwards compatibility of the database versions during the import and export process by defining the compatibility of the export database version. This parameter is optional.

For example, if the Oracle database version is 12.2.0.1 and the parameter is not set the parameter automatically sets to VERSION=12.2.0.1 and an import is only possible with an Oracle database version of 12.2.0.1. In this example, the export is not possible to import into the Oracle database version 12.1.0.1.

For example, if the database version is 12.1.0.1 and the parameter is defined, then you can export from an Oracle database version 12.2.0.1 and the export can be imported into an Oracle database version 12.1.0.1 or higher by defining the same parameter during the import process.

Import using the Data Pump IMPDP.exe

In the example below, the file to import must be in the directory defined as the dpump_dir directory.

Use the following command to execute the Data Pump import and refer to the explanations listed below for each parameter.

```
IMPDP USER/PASSWORD@ALIAS DIRECTORY=dpump_dir DUMPFILE=DUMPFILENAME.dmp PARALLEL=1 LOGFILE=LOGFILENAME.log ENCRYPTION_PASSWORD=ThePassWordForEncryption ENCRYPTION_MODE=password VERSION=12.1.0.1 REMAP_SCHEMA=OWNER:TARGET
```
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARALLEL=1</td>
<td>Defines how many processes are used during the export. Increasing the number of processes creates a faster export. This affects the performance of Suite8. You must use more than one process only when no one is using the Suite8 application.</td>
</tr>
<tr>
<td>ENCRYPTION_PASSWORD</td>
<td>The <code>ThePassWordForEncryption</code> must be the same as defined in the export.</td>
</tr>
<tr>
<td>ENCRYPTION_MODE=password</td>
<td>Do not change.</td>
</tr>
<tr>
<td>VERSION=12.1.0.1</td>
<td>Defines the backwards compatibility of the export. The Oracle database version must be equal or higher and requires the same version that was defined during the export process.</td>
</tr>
</tbody>
</table>

For example, if the Oracle database version is 12.2.0.1 and the parameter is not set the parameter automatically sets to `VERSION=12.2.0.1` and an import is only possible with an Oracle database version of 12.2.0.1. In this example, the export is not possible to import into the Oracle database version 12.1.0.1.

For example, if the database version is 12.1.0.1 and the parameter is defined, then you can export from an Oracle database version 12.2.0.1 and the export can be imported into an Oracle database version 12.1.0.1 or higher by defining the same parameter during the import process.