Oracle® Hospitality Simphony Post-Installation or Upgrade Guide





Oracle Hospitality Simphony Post-Installation or Upgrade Guide, Release 18.2

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Preface

This guide is for Simphony Cloud Services users and provides post-installation steps to perform after a fresh installation or upgrade to the Simphony 18.2 release. Beginning with the Simphony 2.9 release or later, users must install Reporting and Analytics (R&A) separately from Simphony using the Back Office R&A installation application. For upgrades from releases prior to Simphony 2.9, users must upgrade to Reporting and Analytics release 8.5.1 Patch 3 before installing or upgrading to Simphony release 2.9. Simphony release 18.2 is compatible with R&A releases 8.5.1 Patch 3 (for all-in-one installations), 9.0 Patch 8, and 9.1.

Audience

This installation guide is intended for installers, programmers, technical support teams, product specialists, and others who are responsible for setting up Oracle Hospitality Simphony release 18.2.

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 all associated log files
- · Screen shots of each step you take

Documentation

The *Simphony Installation Guide* contains more information about performing installations and upgrades to Simphony.

Product documentation is available on the Oracle Help Center at https://docs.oracle.com/en/industries/food-beverage/pos.html.

Revision History

Date	Description of Change
December 2018	Initial publication



Date	Description of Change
May 2019	 Removed the following sections from Chapter 2:
	 Updating Simphony License Counts
	 Post Install Steps for Engagement on Load Balanced Simphony Servers
	 Added Chapter 3: EMC Access Security
	 Updated the Upgrading to Simphony Release 18.2 topic.
December 2019	Updated the Upgrading to Simphony Release 18.2 topic by including the workaround to add the SQLNET.INBOUND_CONNECT_TIMEOUT=1 20 parameter.



1

Upgrading Simphony

The information on this page provides instructions on how to perform an upgrade to your Simphony system.

- Upgrading to Simphony Release 18.2
- Simphony Upgrade Procedures
- Upgrades When Adding a New Database Server
- Upgrades without Separate Transaction and Security Database Servers
- Upgrades with Existing Separated Transaction and Security Database Servers
- Post-Upgrade Steps for CAPS on IIS for Simphony 2.9 Users

Upgrading to Simphony Release 18.2

Simphony version 18.2 performs an upgrade from Simphony version 2.9 or later. To enhance your system's security, during upgrades, the Simphony installation application enables you to physically separate the Transaction (MCRSPOS) database from the Security (MCRSCACHE) database (onto another database server), and then proceed with the upgrade. Oracle strongly recommends storing these databases on separate database servers. The following sections review three possible upgrade scenarios:

- Upgrades When Adding a New Database Server
- Upgrades without Separate Transaction and Security Database Servers
- Upgrades with Existing Separated Transaction and Security Database Servers

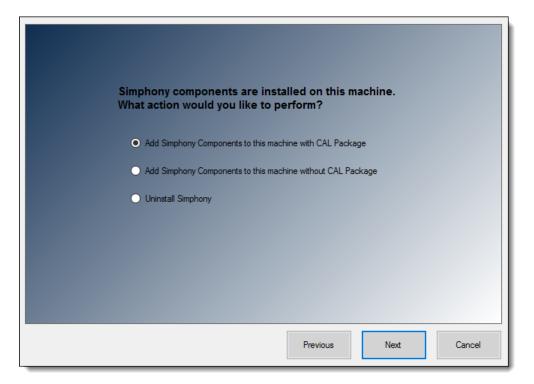
When upgrading in certain environments, you may experience the error ORA-25408, which is an Oracle Client related issue outside of Simphony. This condition is caused by environmental network timeouts being reached. To work around this issue, add the parameter SQLNET.INBOUND_CONNECT_TIMEOUT=120 to the Sqlnet.ora file on the database server.

- 1. Ensure that the Simphony application and database servers meet the requirements listed in Pre-Installation Tasks.
- 2. Log in and download the Simphony release 18.2 installation application from the Oracle Technology Network (OTN) website at https://edelivery.oracle.com/.
- 3. Run the **Setup**, and then click **Next**.
 - If the application and the database are on separate servers, run the installation application on the application server.
- 4. Enter the logon credentials for a database administrator, and then click **OK**.
 - If you are using an Oracle database, enter the credentials for the sys user.
 - If you are using Microsoft SQL Server, enter the credentials for the SA user.



Beginning with the Simphony 2.10 release and later, you can upgrade application components on servers with or without downloading CAL Packages to the Simphony database. This flexibility can speed up the upgrade process on properties using multiple application servers.

Figure 1-1 Simphony Components Installation Options



Simphony Upgrade Procedures

- 1. Ensure that the Simphony application and database servers meet the requirements listed in the *Oracle Hospitality Simphony Installation Guide*, specifically the *Pre-Installation Tasks* section.
- 2. Log in and download the Simphony 18.2 release installation application from the Oracle Technology Network (OTN) Web site at https://edelivery.oracle.com.
- 3. Run the **Setup** and click **Next**. If you have the application and the database on separate servers, run the installation application on the application server.
- Enter the logon credentials for a database administrator, and then click OK.
 - If you are using an Oracle database, enter the credentials for the sys user.
 - If you are using Microsoft SQL Server, enter the credentials for the sa user.
- 5. Select Update Application Components on this machine, and then click Next.
- 6. If you are using a Load Balancer server and using the Import/Export Service or plan to use the Oracle Hospitality Simphony Engagement Cloud Service, select LoadBalancer for the Certificate Location field. If you define a Service Host Secure Port number other than the default of 443, you need to enable that port on the Load Balancer server.



- 7. If you are not using a Load Balancer server and are installing the Import/Export Service or plan to use the Engagement Cloud Service:
 - Select IIS for the Certificate Location field.
 - **b.** To add a new certificate, select **New**, click **Select**, enter or select the certificate location, and then enter the **Password** for the certificate.
 - **c.** To use an existing certificate, select **Existing**, and then select the installed certificate from the drop-down list.
 - d. Enter the Service Host Secure Port.

If you define a Service Host Secure Port number other than the default of 443, you need to configure the IIS Bindings of each Application Pool to the new port. To add IIS Bindings, refer to Binding Secure Server Certificates to IIS and the Microsoft TechNet Library at https://technet.microsoft.com/en-us/ for more information.

- 8. If you are connected to Reporting and Analytics, enter the passwords for the MMSQL and CEDB database users, and then click **Next**.
- 9. Click **Next**, and then click **Confirm** to begin the upgrade.
- 10. Click **Yes** to restart the server.

Upgrades When Adding a New Database Server

This section provides upgrade instructions to enhance your system security by adding a new database server to house the security database. If you are using multiple Simphony application servers, upgrade the initial application server to Simphony release 18.2. After upgrading subsequent application servers, ensure that on each application server the security database server name matches the dataSource entry for the CACHE host name located in the application server's DBSettings.xml. This file is located on the initial Simphony application server that was upgraded. For example:

```
alias="Cache"

dbType="<TYPE> "

dataSource="<SERVERNAME>"
```

To initiate this type of upgrade:

- 1. Perform Steps 1 through 5 in Simphony Upgrade Procedures.
- 2. **Certificate Location**: Throughout the Simphony 18.2 upgrade process, the Simphony installation application checks for the entry of a valid Service Host Name. The following parameters review the installation application's Service Host Name validation behavior:
 - a. If Microsoft Internet Information Services (IIS) is selected for the Certificate Location field, note that the Service Host Name (to be entered on the next installation screen) is based on the installed secure certificate's Common Name (CN) field.
 - b. Certificate: To add a new certificate, select New, click Select, enter or select the certificate location, and then enter the Password for the certificate.
 - **c.** To use an existing certificate, select **Existing**, and then select the installed certificate from the drop-down list.



- d. If you are using a Load Balancer server and using the Import/Export Service or plan to use the Oracle Hospitality Simphony Engagement Cloud Service, select LoadBalancer for the Certificate Location field. Note that the Service Host Name (to be entered on the next installation screen) is based on the Full Qualified Domain Name (FQDN) of your application server.
- e. Https IP Address: Enter the application server's IP address.
- f. Service Host Secure Port: If you enter a port number other than the default of 443, you need to enable that port on the Load Balancer server, and then click Next.
- 3. When using IIS, enter (or verify) the **Service Host Name** (for the Simphony application server). If the Service Host Name does not match the installed secure Certificate's CN text, a warning message dialog appears.
 - a. Do not ignore the message; select No, and then correct the invalid Service Host Name.
 - b. Enter the **Default Gateway IP** address and **Default Net Mask** in their corresponding fields, and then click **Next**.
- **4.** When using **LoadBalancer**, enter (or verify) the **Service Host Name** (for the Simphony application server). If the Service Host Name does not match the FQDN of your computer, a warning message dialog appears.
 - **a.** Do not ignore the message; select **No**, and then correct the invalid Service Host Name.
 - b. Enter the **Default Gateway IP** address and **Default Net Mask** in their corresponding fields, and then click **Next**.
- **5.** Enter the following information that is used to connect to the security database:
 - a. **Server Name**: Enter the name of the security database server.
 - **b. Service Name**: (Oracle Database users) Enter the name of the service (TNS alias).
 - **c. Instance Name**: (Microsoft SQL Server users) Enter the Microsoft SQL Server's database name (usually contains the database server's name).
 - d. **Username**: Enter your security database access user name.
 - e. Password: Enter your security database access password.
 - **f. Database Port**: Enter the port number used to access the security database server, and then click **Next**.
- 6. Enter your security database administrator **Username** and **Password** logon credentials, and then click **OK** and **Next**. If the security database server name and logon credentials entered in Step 3 match the server name where the Transaction database is stored, the installation application prompts and affords users the opportunity to separate the databases onto different database servers. Because you want the two databases separated, click **Yes**.
- 7. Enter the following information that is used to connect to the secondary database server, and then click **Next**:
 - a. **Server Name**: Enter the name of the secondary database server. This name should match the dataSource entry for the CACHE host name located in the application server's DBSettings.xml. For example:

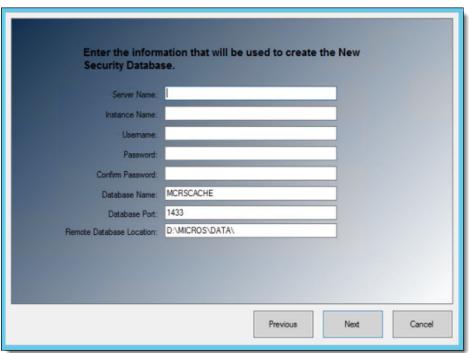
alias="Cache"

dbType="<TYPE>"



- dataSource="<SERVERNAME>"
- **b. Service Name**: (Oracle Database users) Enter the name of the service (TNS alias).
- c. Instance Name: (Microsoft SQL Server users) Enter the Microsoft SQL Server's database name (usually contains the database server's name). Per the Pre-Installation Tasks for Microsoft SQL Server users, you must go to the secondary database server and manually create the folders specified in the Remote Database Location field. Alternatively, you can enter the location of previously existing files on the secondary database server. Click Next.
- **d. Username**: Enter your security database access user name.
- e. Password: Enter your security database access password.
- **f. Confirm Password**: Re-enter your security database access password.
- g. Database Name: Enter the name of the security database.
- h. **Database Port**: Enter the port number used to access the security database.
- i. **Remote Database Location**: Enter the path and folder names where the Security database is to be created.

Figure 1-2 New Security Database Information



- 8. Enter the logon credentials for a database administrator, and then click **OK**.
 - If you are using an Oracle Database, enter the credentials for the sys user.
 - If you are using a Microsoft SQL Server database, enter the credentials for the sa user.
- 9. Enter the following information to connect to the reporting database:
 - **Server Name**: Enter the name of the reporting database server.



- **b. Service Name**: (Oracle Database users) Enter the name of the service (TNS alias).
- c. Instance Name: (Microsoft SQL Server users) Enter the Microsoft SQL Server's database name (usually contains the database server's name).
- d. Username: Enter (or verify) your reporting database access user name.
- e. Password: Enter your reporting database access password.
- f. Database Port: Enter the port number used to access the reporting database.
- g. Username: Enter (or verify) your reporting database access user name.
- Password: Enter your reporting database access password, and then click Next.
- 10. Enter a database administrator's logon credentials, click OK, and then click Next.
 - If you are using an Oracle Database, enter the credentials for the sys user.
 - If you are using a Microsoft SQL Server database, enter the credentials for the sa user.
- **11.** Click **Confirm**. The installation application creates a new user and security database on the secondary database server and drops them from the original database server. When the upgrade is complete, click **Finish**.

Upgrades without Separate Transaction and Security Database Servers

This section provides upgrade instructions for sites that want to maintain their Transaction and Security databases on the same database server. To initiate this type of upgrade, perform the following steps:

- 1. Perform Steps 1 through 5 as in Simphony Upgrade Procedures.
- 2. Certificate Location: Throughout the Simphony 18.2 upgrade process, the Simphony installation application checks for the entry of a valid Service Host Name. The following parameters review the installation application's Service Host Name validation behavior:
 - a. If Microsoft Internet Information Services (IIS) is selected for the Certificate Location field, note that the Service Host Name (to be entered on the next installation screen) is based on the installed secure certificate's Common Name (CN) field.
 - **b. Certificate**: To add a new certificate, select **New**, click **Select**, enter or select the certificate location, and then enter the **Password** for the certificate.
 - **c.** To use an existing certificate, select **Existing**, and then select the installed certificate from the drop-down list.
 - d. If you are using a Load Balancer server and using the Import/Export Service or plan to use the Oracle Hospitality Simphony Engagement Cloud Service, select LoadBalancer for the Certificate Location field. Note that the Service Host Name (to be entered on the next installation screen) is based on the Full Qualified Domain Name (FQDN) of your application server.
 - e. Https IP Address: Enter the application server's IP address.



- f. Service Host Secure Port: If you enter a port number other than the default of 443, you need to enable that port on the Load Balancer server and then click Next.
- 3. When using IIS, enter (or verify) the **Service Host Name** (for the Simphony application server). If the Service Host Name does not match the installed secure Certificate's CN text, a warning message dialog appears.
 - Do not ignore the message; select No, and then correct the invalid Service Host Name.
 - b. Enter the **Default Gateway IP** address and **Default Net Mask** in their corresponding fields, and then click **Next**.
- 4. When using LoadBalancer, enter (or verify) the Service Host Name (for the Simphony application server). If the Service Host Name does not match the FQDN of your computer, a warning message dialog appears.
 - a. Do not ignore the message; select No, and then correct the invalid Service Host Name.
 - **b.** Enter the **Default Gateway IP** address and **Default Net Mask** in their corresponding fields, and then click **Next**.
- Enter (or verify) the Service Host Name for the Simphony application server, Default Gateway IP address, and Default Net Mask in their corresponding fields, and then click Next.
- **6.** Enter the following information that is used to connect to the existing security database, and then click **Next**:
 - a. Server Name: Enter the name of the security database server.
 - **b. Service Name**: (Oracle Database users) Enter the name of the service (TNS alias).
 - **c. Instance Name**: (Microsoft SQL Server users) Enter the Microsoft SQL Server's database name (usually contains the database server's name).
 - d. Username: Enter your security database access user name.
 - e. **Password**: Enter your security database access password.
 - f. Database Port: Enter the port number used to access the security database server, and then click Next.
- **7.** Enter the following information to connect to the reporting database:
 - **a. Server Name**: Enter the name of the reporting database server.
 - **b. Service Name**: (Oracle Database users) Enter the name of the service (TNS alias).
 - **c. Instance Name**: (Microsoft SQL Server users) Enter the Microsoft SQL Server's database name (usually contains the database server's name).
 - **d. Username**: Enter (or verify) your reporting database access user name.
 - e. Password: Enter your reporting database access password.
 - **f. Database Port**: Enter the port number used to access the reporting database.
 - g. **Username**: Enter (or verify) your reporting database access user name.
 - h. Password: Enter your reporting database access password, and click Next.
- 8. Enter a database administrator's logon credentials, click **OK**, and then click **Next**.



- If you are using an Oracle Database, enter the credentials for the sys user.
- If you are using a Microsoft SQL Server database, enter the credentials for the sa user.
- 9. Click **Confirm**. The installation application creates a new user and security database on the secondary database server and drops them from the original database server. When the upgrade is complete, click **Finish**.

Upgrades with Existing Separated Transaction and Security Database Servers

This section provides upgrade instructions for sites that already have separate Transaction and Security database servers. To initiate this type of upgrade, perform the following steps:

- 1. Perform steps 1-5 as shown in Simphony Upgrade Procedures.
- 2. **Certificate Location** Throughout the Simphony 18.2 upgrade process, the Simphony installation application checks for the entry of a valid Service Host Name. The following parameters review the installation application's Service Host Name validation behavior:
 - a. If Microsoft Internet Information Services (IIS) is selected for the Certificate Location field, note that the Service Host Name (to be entered on the next installation screen) is based on the installed secure certificate's Common Name (CN) field.
 - **b. Certificate** To add a new certificate, select **New**, click **Select**, enter or select the certificate location, and then enter the **Password** for the certificate.
 - c. To utilize an existing certificate, select **Existing**, and then select the installed certificate from the drop-down list.
 - d. If you are using a Load Balancer server and using the Import/Export Service or plan to use the Oracle Hospitality Simphony Engagement Cloud Service, select LoadBalancer for the Certificate Location field. Note that the Service Host Name (to be entered on the next installation screen) is based on the Full Qualified Domain Name (FQDN) of your application server.
 - e. Https IP Address Enter the application server's IP address.
 - f. Service Host Secure Port If you enter a port number other than the default of 443, you need to enable that port on the Load Balancer server and then click Next.
- 3. When using IIS, enter (or verify) the **Service Host Name** (for the Simphony application server). If the Service Host Name does not match the installed secure Certificate's CN text, a warning message dialog appears.
 - **a.** Do not ignore the message, select **No**, and then correct the invalid Service Host Name.
 - b. Enter the **Default Gateway IP** address and **Default Net Mask** in their corresponding fields, and then click **Next**.
- **4.** When using **LoadBalancer**, enter (or verify) the **Service Host Name** (for the Simphony application server).
 - **a.** If the Service Host Name does not match the FQDN of your computer, a warning message dialog appears.



- **b.** Do not ignore the message, select **No**, and then correct the invalid Service Host Name.
- 5. Enter the **Default Gateway IP** address and **Default Net Mask** in their corresponding fields, and then click **Next**.
- **6.** Enter the following information that is used to connect to the existing security database, and then click **Next**:
 - a. **Server Name** Enter the name of the security database server.
 - **b. Service Name** Oracle Database users Enter the name of the service (TNS alias).
 - Instance Name Microsoft SQL Server users Enter the Microsoft SQL Server's database name (usually contains the database server's name).
 - d. **Username** Enter your security database access user name.
 - e. Password Enter your security database access password.
 - f. Database Port Enter the port number used to access the security database server, and then click Next.
- 7. Enter the following information to connect to the reporting database:
 - a. Server Name Enter the name of the reporting database server.
 - **b. Service Name** Oracle Database users Enter the name of the service (TNS alias).
 - c. Instance Name Microsoft SQL Server users Enter the Microsoft SQL Server's database name (usually contains the database server's name).
 - d. Username Enter (or verify) your reporting database access user name.
 - e. Password Enter your reporting database access password.
 - f. Database Port Enter the port number used to access the reporting database.
 - g. Username Enter (or verify) your reporting database access user name.
 - h. Password Enter your reporting database access password, and click Next.
- 8. Enter a database administrator's logon credentials, click **OK**, and then click **Next**.
 - If you are using an Oracle Database, enter the credentials for the sys user.
 - If you are using a Microsoft SQL Server database, enter the credentials for the sa user.
- Click Confirm. The installation application creates a new user and security database on the secondary database server and drops them from the original database server. When the upgrade is complete, click Finish.



Note:

If multiple Simphony application servers are utilized, upgrade the initial application server to Simphony release 18.2. After upgrading subsequent application servers, ensure that on each application server the security database server name matches the **dataSource** entry for the CACHE host name located in the application server's DBSettings.xml. This file is located on the initial Simphony application server that was upgraded. For example:

```
alias="Cache"
dbType="<TYPE"
dataSource="<SERVERNAME>"
```

Post-Upgrade Steps for CAPS on IIS for Simphony 2.9 Users

This section only applies if you are upgrading from the Simphony 2.9 General Release (GR) and are using either an Oracle or Microsoft SQL Server database platform, and are upgrading to Simphony releases 2.10, 18.1, or 18.2.

No additional post-upgrade steps are necessary for CAPS on Microsoft Internet Information Services (IIS) if you upgrade from Simphony releases later than Simphony 2.9 GR (for example, Simphony 2.10, 18.1, or 18.2).

- Step 1 Close and Post All Transactions
- Step 2 Access the IIS Manager Console
- Step 3 Rename the IIS Folder
- Step 4 Enable an Option and Configure CAPS
- Step 5 Stop IIS
- Step 6 Move the DbSettings.xml to the Newly Defined IIS CAPS Path
- Step 7- Start IIS
- Step 8 Verify Log Creation, Database Tables, and Delete the Old Directory

Step 1 - Close and Post All Transactions

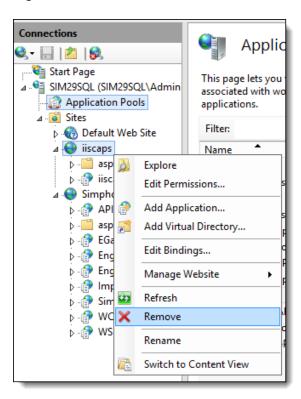
Ensure that all transactions for the property are closed and posted to the Enterprise prior to performing the Simphony upgrade.

Step 2 - Access the IIS Manager Console

- From the desktop of each server running CAPS on IIS, select Start, Control Panel, Administrative Tools, and then select Internet Information Services (IIS) Manager.
- From the IIS Connections column, expand the Sites folder and right-click the site created for IIS CAPS and select Remove. The name of the IIS CAPS site should

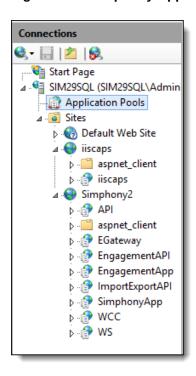
be the same as the *ServiceHostName*. For example, if your service host name is MyIISCapsSvcHost, your site name should be added using the exact same text.

Figure 1-3 IIS CAPS Site



3. From the IIS Connections column, click **Application Pools**.

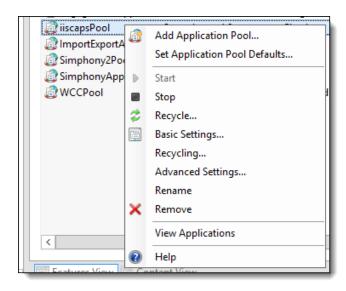
Figure 1-4 Simphony Application Pools





4. Right-click the application pool created for IIS CAPS and select **Remove**. The name of the IIS CAPS pool should be the *ServiceHostName* Pool. For example, if your service host name is *MyIISCapsSvcHost*, your IIS CAPS application pool name should be *MyIISCapsSvcHostPool*.





Step 3 - Rename the IIS Folder

- 1. Rename the Simphony release 2.9 (or later) IIS CAPS folder.
- 2. Verify the installed folder path by navigating to the [Drive]:\MICROS \Simphony2\Tools\CAPSConfigurator\CAPSConfigurator.exe.config file and open it with a text editor such as Microsoft Notepad.

Figure 1-6 CAPSConfigurator.exe.config IIS CAPS Directory Installation Folder Path

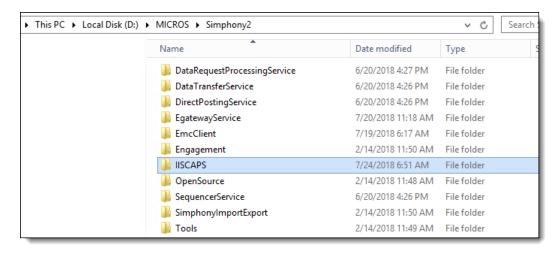
```
File Edit Format View Help

| Read |
```



3. Note that the default Simphony release 2.9 (or later) IIS CAPS folder location is: [Drive]:\Simphony2\IISCAPS. Rename the IISCAPS folder to IISCAP_Backup. This step ensures that you maintain a backup of the old folder.

Figure 1-7 Default IIS CAPS Folder Installation Path



Step 4 - Enable an Option and Configure CAPS

- Access EMC and navigate to the Enterprise level, click the Configuration tab, and then click Roles.
- 2. Click your assigned role and switch to Form view.
- 3. Click the **Operations** tab, and then click the **Miscellaneous** subtab.
- 4. In the Miscellaneous Options section, enable 10065 Download Software, Install and Authenticate Clients and Service Hosts Using CAL, and then click Save.
- 5. If you are configuring CAPS on IIS at the Simphony application server, you can access the CAPS Configurator Tool using this path: [Drive]:\MICROS\Simphony2\Tools\CAPSConfigurator\CAPSConfigurator.exe. If you are installing CAPS on IIS on a remote workstation or virtual machine, install CAL on that device, and through CAL, deploy a package called CAPSOnIIS to the device. When the software is on the device, navigate to [Drive]:\MICROS\Simphony\CAPSOnIIS\Tools\CAPSConfigurator\ and double-click the CAPSConfigurator.exe file.
- 6. Log on to the **CAPS Configurator Tool**, and freshly configure CAPS with the default configuration settings by clicking the **Configure CAPS** button.



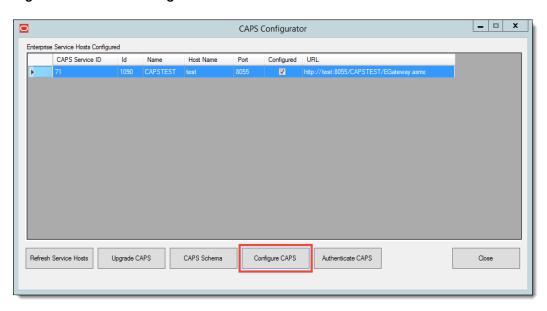


Figure 1-8 CAPS Configurator Tool

7. Upon successful installation, verify that the new directory is created along the [Drive]:\Simphony2\EgatewayService\IISCAPSServiceHost path.

Step 5 - Stop IIS

To stop IIS:

- 1. Run the command window with administrator privileges.
- 2. Enter the iisreset /stop command, and press Enter.

Step 6 - Move the DbSettings.xml to the Newly Defined IIS CAPS Path

- Copy the DbSettings.xml file from the old path (review Step 3 Rename the IIS Folder, and verify the default CAPS IIS installation path), and then using Microsoft Windows Explorer, navigate to that path (for example, [Drive]: \Simphony2\IISCAP_Backup\IISCAPS\DbSettings.xml).
- 2. Paste the **DbSettings.xml** file in the new path: [Drive]: \Simphony2\EgatewayService\IISCAPSServiceHost.
- 3. Edit the **DbSettings.xml** file to update the CAPS database password; this means to delete the previously existing password value on epw (encrypted format) and enter the password again with pwd (ClearText). For example:



Step 7- Start IIS

To start IIS:

- 1. Run the command window with administrator privileges.
- 2. Enter the iisreset /start command, and press Enter.

Step 8 - Verify Log Creation, Database Tables, and Delete the Old Directory

- 1. Verify that logs are created here: [Drive]:\Simphony2\EgatewayService \IISCAPSServiceHost\EgatewayLog.
- 2. Verify that the tables are upgraded on the existing transaction database.
- 3. Delete the Simphony release 2.9 CAPS directory (for example, the IISCAP_Backup directory). See Step 3 Rename the IIS Folder for details.



Post-Installation Tasks

Perform all post-installation tasks to ensure that the application components and the databases are configured correctly.

- Updating the Property EMC Client
- Updating Check and Posting Service Clients
- Updating CAL Packages
- Enabling Communication Between the Enterprise and Workstations

Updating the Property EMC Client

The Enterprise Management Console (EMC) is the primary configuration application in Simphony. A shortcut for accessing EMC is installed on the application server during the installation.

Self-hosted customers also need to follow these steps to configure Remote EMC clients. Remote EMC clients enable users to access the EMC from other computers on the network.

The Oracle Hospitality Simphony Manager User Guide, specifically the Simphony Web Portal (SWP) section contains instructions about accessing the SWP and updating your EMC Client for your property.

Updating Check and Posting Service Clients

Update all Check and Posting Service (CAPS) clients prior to updating workstations with the latest CAL Packages. The *Simphony Client Deployment Guide* contains more information about configuring and deploying CAL Packages.

Updating CAL Packages

Oracle Hospitality recommends that you consider updating your POS clients using the latest available CAL Packages. To accomplish this, verify the CAL Package contents and then configure and execute a CAL Package Deployment Schedule. The *Simphony Client Deployment Guide* contains more information about configuring and deploying CAL Packages.

Enabling Communication Between the Enterprise and Workstations

To allow the workstations in the property to communicate with the Enterprise, you must add Firewall exceptions for the following services on your Simphony application servers using either the default ports or the ports you assign when installing Simphony release 18.2:

- Internet Information Services (IIS): By default uses Transmission Control Protocol (TCP) port 8080 or port 443 for HTTPS connections.
- Oracle Hospitality Labor Management: By default uses TCP port 81.

You may need to open extra ports for additional Simphony features. Contact your local support representative or Oracle Hospitality Support Services for assistance.

For instructions on opening a port in Windows Firewall, refer to the Microsoft TechNet Library at https://technet.microsoft.com/en-us/library.



EMC Access Security

Enterprise Management Console (EMC) access security has been enhanced with the support of Multi-Factor Authentication (MFA). This chapter reviews enabling configuring the system's EMC security settings including information about configuring employee passwords and email addresses.

- Accessing the Simphony EMC Using Multi-Factor Authentication
- Configuring the SMTP and Backup SMTP Servers in the EMC
- Configuring and Resetting Email Addresses
- Forgotten EMC Password Recovery
- Setting the Max Allowed Failed Logins for EMC Access

Accessing the Simphony EMC Using Multi-Factor Authentication

To use Multi-Factor Authentication (MFA) on your Simphony system, you need to add and register your email address.

- When first attempting to log in to the Simphony EMC, when prompted, enter your user name in the User Name field, and enter your email address in the Email Address field.
- Re-enter your email address in the Confirm Email Address field, and then click Register.

This email address is used to send you a one-time password (OTP). Your registered email address is written to your employee record in the newly added **Email** field.

- 3. Access the email account you registered in Step 1 and open the email containing the OTP.
- 4. Enter the password in the One-Time Password field, and then click Enter.

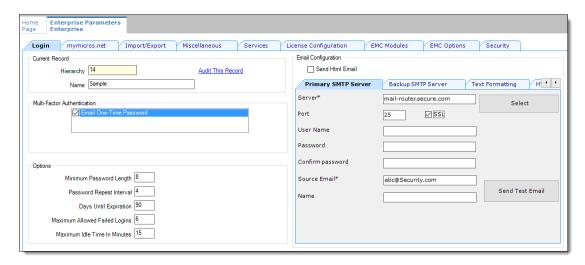
OTPs are only valid for five minutes, so enter your OTP password in a timely manner. If the five-minute threshold is exceeded, you are required to re-login to the EMC to generate another OTP. OTPs are valid for one single entry for the individual attempting to log in to the EMC at that time. After entering a valid OTP, the EMC opens.

Configuring the SMTP and Backup SMTP Servers in the EMC

SMTP and Backup SMTP server settings are configured and saved at the Enterprise level. To configure the SMTP servers:

- Select the Enterprise level, click Setup, click Enterprise Parameters, and then click the Login tab.
- Within the Multi-Factor Authentication section, enable the Email One-Time Password option.

Figure 3-1 EMC Enterprise Parameters Login Tab



- From the Email Configuration section, select the Primary SMTP Server subtab and enter the required settings in the fields listed below:
 - a. Server: Enter either the IP address (IPv4 Address) or the name of the Primary SMTP server. Click the Select button to choose an email provider, and then click OK. When you select an email provider, the Server field auto-populates with an SMTP server name that includes the selected email provider's naming convention (for example, SMTP.EMAIL.COM).
 - b. Port: Enter a port number or use the defaults.
 - c. SSL: Select to enable a secure connection using HTTPS.
 - d. User Name: Enter a user name for access to the Primary SMTP server.
 - **e. Password**: Enter a password for access to the Primary SMTP server and reenter it in the **Confirm password** field for verification.
 - f. Source Email: Enter your source email address. This email address is used as the sender of all OTP emails.
 - g. (Optional) Name: Enter an alternate (alias) name for the Source Email sender.
- Click the Backup SMTP Server subtab and enter the IP address or server name of the Backup SMTP server.
- 5. Enter information in the fields as listed above for the SMTP Backup server.
- 6. Click Save.
- 7. On the Primary SMTP Server tab, click the Send Test Email button to confirm the SMTP server's configuration and that the OTP email is received. Repeat this step on the Backup SMTP Server tab to confirm the functionality.

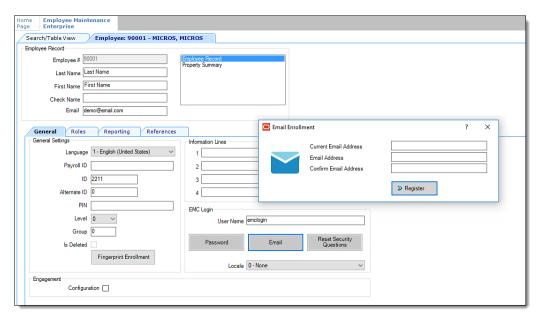


Configuring and Resetting Email Addresses

After enabling Multi-Factor Authentication (MFA), each user that accesses the EMC or Simphony Web Portal (SWP) must register their email address. The system prompts each EMC user to do so. This enables users to receive the one-time password (OTP) via email to complete the EMC login process. To enroll a user's email address using the EMC:

- Select the Enterprise level, click Configuration, and then click Employee Maintenance.
- 2. Search for the employee record that requires editing.
- Click the Email button and enter the user's email address in the Email Address field. Re-enter the email address in the Confirm Email Address field and click Register.

Figure 3-2 Employee Email Address Configuration



- 4. If a user's email address changes:
 - a. Click the Email button.
 - b. Enter the user's Current Email Address (that is already registered on the system), new Email Address, and then re-enter the address in the Confirm Email Address field.
 - c. Click Register.
- Depending on your Employee Role privilege settings in reference to accessing the Employee Maintenance module, you can also enter or edit the Email field for yourself or others.

Forgotten EMC Password Recovery

Staff members occasionally forget their password to access the EMC or Simphony Web Portal (SWP). You can reset your password or, in some cases, assist others in

resetting their password (if you are privileged to do so). This is accomplished by receiving a temporary, One-Time Password (OTP) via email, which then allows you to log on and reset your password. To further enhance security, you are prompted by the system to choose three security questions from a drop-down list. You must then enter the answers (known only to you) to each of the security questions.

OTPs are valid for one single entry for the individual attempting to log on to the EMC at that time. One-Time Passwords are only valid for five minutes after they are generated by the system.

Prerequisites

To use this functionality, the following requirements must be met:

- You must install and make network accessible, two separate Simple Mail Transfer Protocol (SMTP) email servers (each to be designated as either a Primary or Backup server). This is required so that One-Time Passwords can be emailed to employees as needed.
- To use the Can't Sign In? link, each employee using the EMC must have a valid email address configured in their employee record.

If you are locked out of the EMC, you can reset your own password (if you have the necessary access privileges assigned to your account).

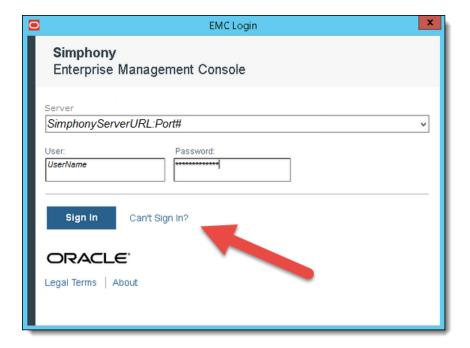


Figure 3-3 EMC Login Can't Sign In?

- Configuring Access Privileges for Resetting a Password
- Resetting Passwords from the Simphony Web Portal

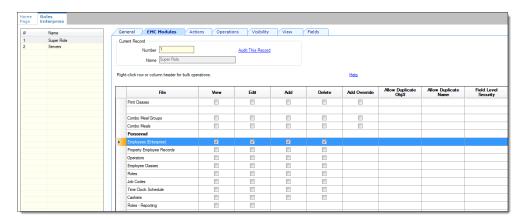


Configuring Access Privileges for Resetting a Password

To access and reset passwords for other users, you need to be assigned the appropriate privileges in the EMC.

- 1. Select the Enterprise level, click Configuration, and then click Roles.
- 2. Click the EMC Modules tab and scroll to the Personnel section.
- Select the options for the Employees (Enterprise) access privileges for each of the following columns:
 - View
 - Edit
 - Add
 - Delete

Figure 3-4 Roles for EMC Modules



- 4. Click Save.
- Click the Actions tab, and then scroll through the Action column until you reach the Security section.
- 6. Select the Can Change Others' Passwords and Email Addresses and Security Questions check box to enable the option, and then click Save.



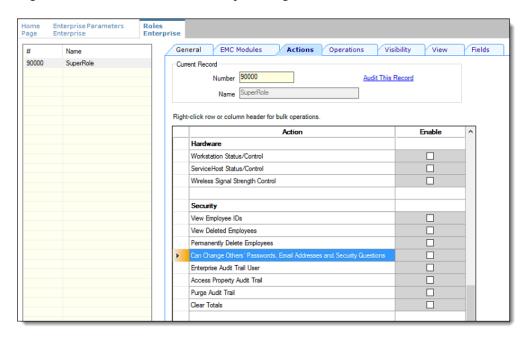


Figure 3-5 Roles Actions Security Settings

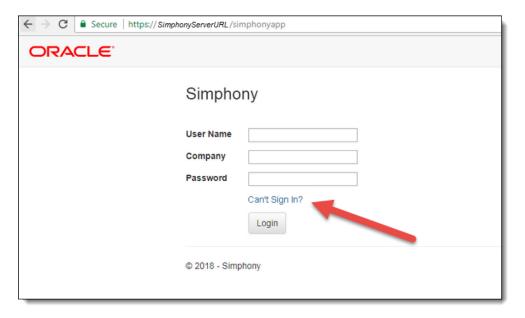
7. Ensure that all users requiring Multi-Factor Authentication (MFA) configuration permissions are assigned a role that have these access privileges enabled.

Resetting Passwords from the Simphony Web Portal

You can reset passwords and configure your security questions from the Simphony Web Portal (SWP) page. To change your password:

 Open the Simphony Web Portal URL. When prompted, enter your User Name, and then click the Can't Sign In? link. You are provided with a One Time Password (OTP) via email.

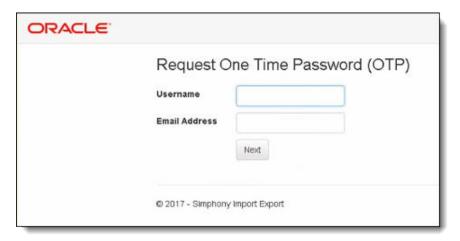
Figure 3-6 Simphony Web Portal Logon Screen's Can't Sign In? Link





2. When prompted, enter your **User Name** and registered **Email Address**.

Figure 3-7 Request One Time Password Screen



- 3. The system validates the information you entered, and shows a details page where you must correctly answer your security questions as configured in the system. Upon entering your validated logon and security question responses, an OTP token is sent to your email account, and you are redirected to the Forgot Password page. You are prompted to enter your OTP and your new password, and to confirm it by entering these credentials again.
- 4. When you click the **Can't Sign In?** link from the EMC Log in screen, the system redirects you to the **Request One Time Password (OTP)** page of the SWP in a browser. To log in, enter the following information, and then click **Next**:
 - Username
 - Email Address

From the SWP, you can change your password and update your security questions. The following image shows the default User Profile screen. You can access the User Profile screen from the SWP page by clicking the **User Profile** link on the toolbar.



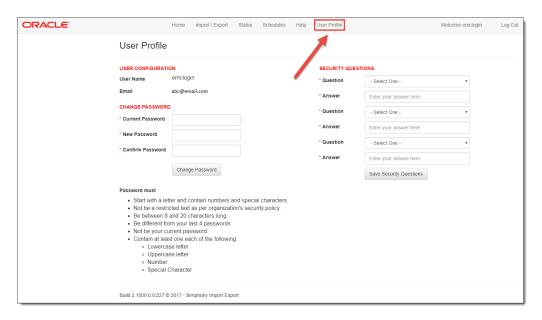


Figure 3-8 Simphony Web Portal (SWP) User Profile Screen

If you do not meet the following prerequisites, you must request to have a privileged supervisor initiate recovery of your password:

- You do not have a valid email address configured within your employee record
- You have not configured your security questions and answers

Setting the Max Allowed Failed Logins for EMC Access

MFA adheres to the EMC account lock out setting.

- Select the Enterprise, click Setup, and then click Enterprise Parameters.
- Click the Login tab.
- In the Options section, enter the value for the Maximum Allowed Failed Logins field

After reaching the failed login threshold (based on entering an invalid EMC user or OTP password), users are notified that their login was rejected by the system and that their account is currently locked out.



4

Updating Property Administrator and Database Logon Credentials

When logging on to the EMC for the first time after installing or upgrading to Simphony release 18.2, a message indicates that the property credentials are not compliant with the Simphony standards. To keep the properties safe from security risks, you need to update the Admin and Database credentials, which Simphony uses to create and maintain the workstation databases. Simphony offers the options of configuring security credentials for each property separately or using the same credentials for all properties in the Enterprise. Simphony requires that you update the system and database administrator credentials every 90 days. If you do not update the credentials, EMC shows the Database Credentials Non-Compliance message each time you log on until you meet the compliance.

- To configure credentials for each non-compliant property separately, see Configuring Different Credentials for Each Property.
- To configure the same credentials for all non-compliant properties in the Enterprise, see Configuring the Same Credentials for All Properties in the Enterprise.
- · Configuring Different Credentials for Each Property
- Configuring the Same Credentials for All Properties in the Enterprise

Configuring Different Credentials for Each Property

- 1. In the EMC, select the Enterprise level, click **Setup**, and then click **Properties**.
- In table view, scroll to the right until you see the Admin Credentials and the Database Credentials columns. If a property is not compliant, the Admin Credentials and the Database Credentials columns are highlighted in red.
- 3. Click either the **Admin Credentials** or the **Database Credentials** column of the non-compliant property, and go to the **Property Parameters** module.
- 4. Click the **Security** tab, and then enter the **User Security Credentials**. Simphony release 18.2 uses these credentials to authenticate the workstations.
 - The **Install User Security Username** must have at least two characters and must not contain a company name, product name, common words, or Structured Query Language (SQL) keywords (for example, Micros, Oracle, abcd, 1234, and so on).
 - The **Install User Security Password** must have a minimum of eight characters and adhere to the Oracle Database standards.
- 5. Enter the Current Password of the Admin User.
- Enter a new strong password for the Admin User.

Review the *Simphony Installation Guide* specifically, the **Database User Passwords** section which contains more information about password requirements.

- 7. Repeat Steps 5 and 6 for the **Database User**, and then click **Save**.
- 8. Repeat Steps 3 through 7 for all non-compliant properties.

If you are using Simphony release 2.9.1 or later (including the Simphony 18.2 release), the steps outlined above have changed in reference to allowing you to use your EMC logon credentials to perform downloads, upgrades, and authentications using the Client Application Loader (CAL) on service hosts and workstations.

See the *Oracle Hospitality Simphony Configuration Guide*, specifically, the Employees and Privileges chapter, for more information about configuring employees and their access privileges.

To allow users to use their EMC logon credentials to access and update service hosts and workstations:

- Access the EMC and select the Enterprise level, Configuration tab, and then click Roles.
- Select the Operations tab, click the Miscellaneous tab, and then within the Miscellaneous Options section, enable the 10065 – Download Software, Install and Authenticate Clients and Service Hosts Using CAL option.
- Click Save.
- Repeat these steps for each employee role you wish to assign this privilege.

Configuring the Same Credentials for All Properties in the Enterprise

- 1. In the EMC, select the Enterprise level, click **Setup**, and then click **Enterprise Parameters**.
- 2. Click the Security tab, and then select Use Same Credentials for All Properties.
- Select the property whose credentials you want to use, and then enter the New Install User Security Password.
- Re-enter the new security password in the Confirm User Security Password field, and then click Save.

