
**Oracle® Hospitality Inventory
Management**

Deployment Guide

Release 8.5.1

E60192-03

January 2019

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Preface

This document provides information and instructions for preparing your environment and then deploying Oracle Hospitality Inventory Management.

Audience

This document is intended for administrators and technicians responsible for maintaining an Oracle Hospitality Inventory Management deployment.

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
- 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

Date	Description of Change
July 2016	<ul style="list-style-type: none">• Initial publication.
January 2017	<ul style="list-style-type: none">• Correction to SecureConfig instructions.
January 2019	<ul style="list-style-type: none">• Updated the Prerequisites section in the Overview chapter to include information on installing matching component versions.

1 Overview

This document explains how to upgrade an Inventory Management environment to version 8.5.1. It is assumed that the Inventory Management installation being upgraded has all necessary prerequisites of prior versions.

Before Starting

The *Oracle Hospitality Inventory Management 8.5.1 Release Notes* provide more information about new or changed features and updates to system requirements and compatibility.

Files Included

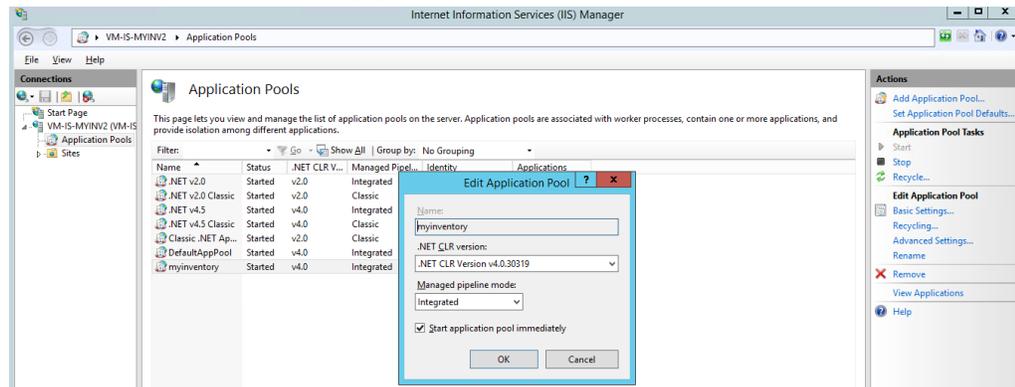
The 8.5.1 release of Inventory Management includes the following files:

- 151021_MobileSolutionSetup myinv 8.5.1.1.zip
- 151218_MobileWebService 8.5.1.30.1568.zip
- 151120_mymicrosWebService 8.5.1.24.1568.zip
- 151217_myOrganizations 8.5.1.24.1568.zip
- 151120_POSWebService 8.5.1.24.1568.zip
- 151120_AutomationService (LB) for MYINV 8.5.1.19.1568.zip
- 151120_MYINV_Full_8.5.1.7.1568
- 151211_myinventory_DBMaintenance (32-bit)_8.5.1.8.1568.zip
- 151211_myinventory_DBMaintenance (64-bit)_8.5.1.8.1568.zip
- 151218_myinventory 8.5.1.30.1568.zip
- 151109_DGMIMS 8.5.1.3.1568.zip
- 151120_ASAMon 8.5.1.16.1568.zip
- SecureConfig.zip
- Shell-DB-Archive.zip
- ODAC121024Xcopy_x64-30165.zip (install only if version found on the ODP download Page is lower or equal 12.1.0.2.4)

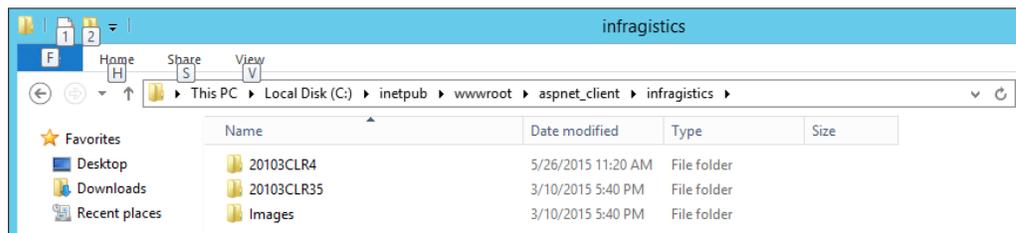
Prerequisites

- Install Microsoft .NET (Full, not Client Profile) on the client PC. You can download the installer from Microsoft or automatically install it during DBMaintenance or AutomationService setup.
- Install the Microsoft Visual C++ 2010 Redistributable Package on Microsoft Windows Server 2008 R2 and Microsoft Windows Server 2012 R2. Download and install the correct package for your operating system bits.
- Install Oracle Data Provider for Microsoft .NET. You can download the package from the Oracle website. Select the appropriate 32-bit or 64-bit version for your system and for the Oracle Client.
- Execute the command line prompt: `install.bat odp.net4 c:\oracle odac`

- Add `c:\oracle` and `c:\oracle\bin` to the system PATH before other Oracle paths.
- Copy `tnsnames.ora` and `sqlnet.ora` from an existing Oracle client installation to `C:\oracle\network\admin`
- Verify that web applications run in an Application Pool that uses Microsoft .NET and is in integrated managed pipeline mode.



- Copy the Microsoft .NET Infragistics scripts from the Inventory Management package to `inetpub\wwwroot\aspnet_client\Infragistics`
 - This creates the new folder `\2013CLR4\`



- Install matching release versions of Enterprise Back Office components. For example, to use Inventory Management with Reporting and Analytics 8.5.1, make sure to install Inventory Management 8.5.1. This does not apply to patches because patch release versions may vary by component.

Deploying Inventory Management

Deploy Inventory Management applications in the following order:

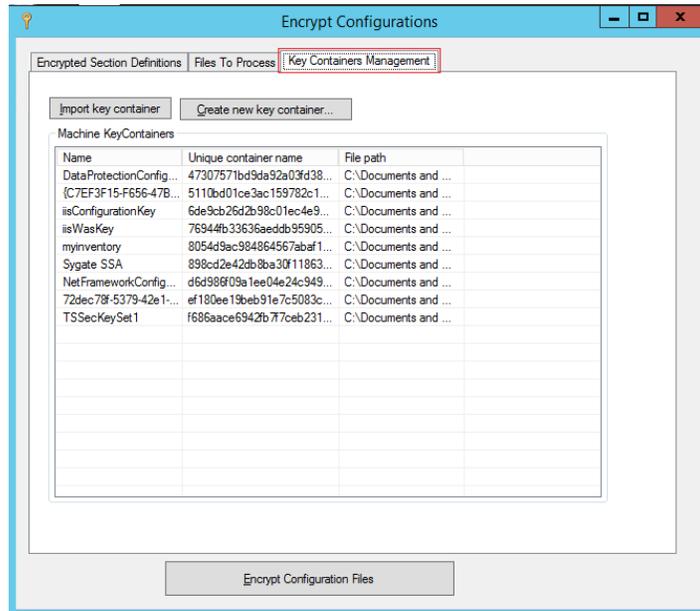
- Install the applications. Oracle recommends a fresh installation of 8.5.0 applications due to changes to configuration files. If you upgrade, move existing `.config` files to a backup location.
- Perform the following security configurations:
 - Use the “SecureConfig” tool to create (or import) key container.
 - Define the encryption key parameters.
 - Encrypt configurations.

The *Oracle Hospitality Inventory Management Security Guide* provides more information and instructions on securing your application.

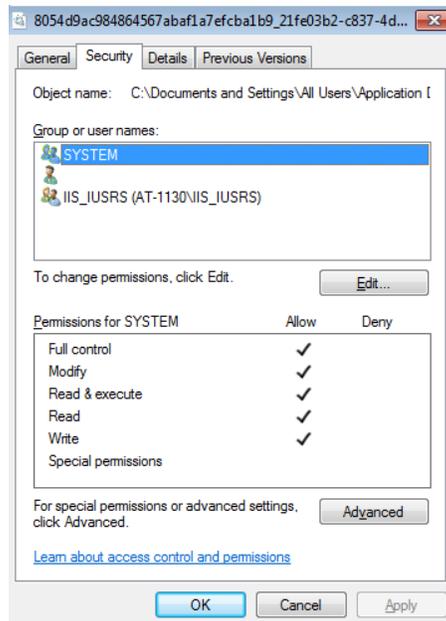
-
- Update database(s).

Use the SecureConfig tool to create or import key container

1. Run the SecureConfig tool as an Administrator and click **Encryption Key Containers** to show the list of machine key containers on the PC.

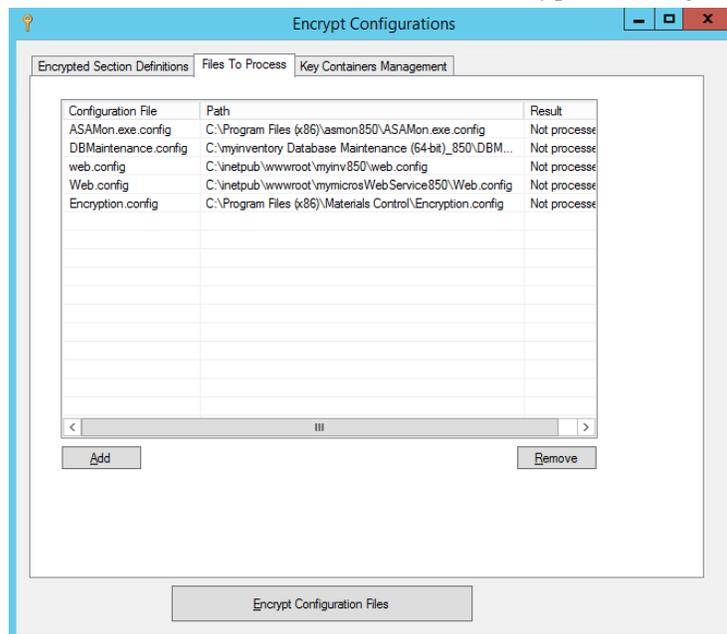


2. If there is no **myinventory** machine key container, click **Create new key container** when installing at a site for the first time, or click **Import key container** if there is an existing installation at the site.
3. Name the key container **myinventory**.
4. To grant access to the key container, right click **myinventory** and click **Show key-file properties**.
5. Select the **Security** tab and give **SYSTEM** and **Administrative Users** full control. If you are using the PC for ASP.NET, give **IIS_USRS** Read access.



- On the **Files to process** tab, click **Add** and add the Configuration files that require encryption depending on your installation:

AutomationService Activity Monitor:	ASAMon.exe.config
AutomationService:	AutomationService.exe.config
DGMIMS:	MobileSolutionsClient.exe.config
MobileWebService:	Web.config
Inventory Management:	web.config
mymicrosWebService:	web.config
myOrganizations:	web.config
POSWebService:	web.config
DBMaintenance:	DBMaintenance.config
Thick Client:	Encryption.config



Update Database(s)

Use the Database Maintenance tool to update databases to 8.5.0. Inventory Management no longer supports the thick client Database Updater and the full thick client.

You can extract `Shell-DB-Archive.zip` to use database shells exported with data pump:

- SHELL851_IMP.dpm (Imperial Unit Database)
- SHELL851_MET.dpm (Metric Unit Database)

When you update the database for the first time, Database manager re-encodes data. Inventory Management and other Enterprise Back Office applications can use the data after re-encoding the data.

Deploying Inventory Management Other PCs

1. On the original installation PC, run the SecureConfig tool, right-click the **myinventory** key container, and then select **Export** to export the key container.
2. On the new PC, run the SecureConfig tool, click **Import key Container**, and then select the key container you exported.
3. To grant access to the key container, right-click **myinventory** and click **Show key-file properties**.
4. Select the **Security** tab and give **SYSTEM** full control. If you are using the PC for ASP.NET, give **IIS_USRS** Read access.
5. Copy the .config files from the original installation PC.

2 Installation Process

Preparing to Upgrade

1. Copy all files from the 8.5.1 build to a temporary directory on the Inventory Management application server.
2. Stop the **IIS Admin Service**, **DGService**, **DGNetService**, and **delegateSys.myinventoryAutomation2** services.
3. Uninstall DGNetService.
4. Make backup copies of the following directories:
C:\inetpub\wwwroot
C:\myinventoryAutomation2
C:\myinventoryService (you can remove this directory after the backup)
C:\Program Files\Materials Control (you can exclude the log files)
C:\Program Files\DBUpdater (you can exclude the log files)
5. If you are upgrading to 8.5.1 from a version older than 8.5.0, uninstall existing instances of the Database Maintenance tool.

Web Applications

Deploy the updated files for the myOrganizations, WebClient, mymicrosWebService, and POSWebService web applications to Internet Information Services (IIS).

The Inventory Management IIS webpages for this example are represented as `<WebClientDir>`, `<myOrgDir>`, and `<WebServiceDir>`.`<POSWebServiceDir>`. Replace these with the names of the IIS directories in your environment. For example, in United States production environments, use `C:\inetpub\wwwroot\webclient` in the place of `<WebClientDir>`, and in EAME environments, use `C:\inetpub\wwwroot\myinventory`

1. Extract the contents of `151217_myOrganizations_8.5.1.24.1568.zip` to a temporary directory. This creates the following files:
 - myOrganizations.Application
 - myOrganizations.Config
2. Extract the contents of `151218_myinventory_8.5.1.30.1568.zip` to a temporary directory. This creates the following folders:
 - Infragistics Scripts
 - myinventory.Application
 - myinventory.Config
3. Extract the contents of `151120_mymicrosWebService_8.5.1.24.1568.zip` to a temporary directory. This creates the following folders:
 - mymicros.WebService.Application
 - mymicros.WebService.Config

-
4. Extract the contents of 151120_POSWebService 8.5.1.24.1568.zip to a temporary directory. This creates the following folders:
 - POSWebService.Application
 - POSWebService.Config
 5. Create a backup of the <WebClientDir>, <WebServiceDir>, and <myOrgDir> folders, and then empty the contents of each folder.
 6. Copy the contents of the myinventory.Application directory to the C:\inetpub\wwwroot\<WebClientDir> directory.
 7. Copy myinventory.Config\web.config to the C:\inetpub\wwwroot\<WebClientDir> directory.
 8. Go to the backup <WebClientDir> directory, open web.config in a text editor, and then copy everything between the <appSettings> and </appSettings> tags. In the new <WebClientDir> directory, open web.config in a text editor, and paste the copied content into the new <appSettings> section. Make sure to overwrite the default content.
 9. If you stored custom files such as recipe images in the <WebClientDir> directory, copy the files from the backup <WebClientDir> directory to the new <WebClientDir> directory.
 10. Navigate to C:\inetpub\wwwroot\aspnet_client and delete the existing Infragistics folder.
 11. Extract the contents of Infragistics Scripts\Infragistics.zip to C:\inetpub\wwwroot\aspnet_client to create a new Infragistics directory.
 12. Copy the contents of the myOrganizations.Application directory to C:\inetpub\wwwroot\<myOrgDir>.
 13. Copy myOrganizations.Config\web.config to C:\inetpub\wwwroot\<myOrgDir>.
 14. Go to the backup <myOrgDir> directory, open web.config in a text editor, and copy everything between the <appSettings> and </appSettings> tags. In the new <myOrgDir> directory, open web.config in a text editor, and paste the copied content into the new <appSettings> section. Make sure to overwrite the default content.
 15. Copy the contents of the mymicrosWebService.Application directory to C:\inetpub\wwwroot\<WebserviceDir>.
 16. Copy mymicrosWebService.Config\web.config to C:\inetpub\wwwroot\<WebserviceDir>.
 17. Go to the backup <WebServiceDir> directory, open web.config in a text editor, and copy everything between the <appSettings> and </appSettings> tags. In the new <WebServiceDir> directory, open web.config in a text editor, and paste the copied content into the new <appSettings> section. Make sure to overwrite the default content.
 18. Create a new virtual IIS directory named PosWebService and link it to the physical directory C:\inetpub\wwwroot\<POSWebService>.

-
19. Copy the contents of the `POSWebService.Application` folder to
`C:\inetpub\wwwroot\<POSWebService>`.
 20. Copy `POSWebService.Config\web.config` to
`C:\inetpub\wwwroot\<POSWebService>`.
 21. Go to the backup `<POSWebService>` directory, open `web.config` in a text editor, and copy everything between the `<appSettings>` and `</appSettings>` tags. In the new `<POSWebService>` directory, open `web.config` in a text editor, and paste the copied content into the new `<appSettings>` section. Make sure to overwrite the default content.
 22. Change the value of the **MyMicrosRefreshURL** key to
`/core/keepLiveAction.do?method=refresh`

Automation Service

The Automation Service installation replaces `myinventoryAutomation2` with `AutomationService`.

1. Extract the contents of `151120_AutomationService (LB) for MYINV 8.5.1.19.1568.zip` to a temporary directory.
2. Double-click `setup.exe` and follow the instructions.
3. Repeat Step 1 and Step 2 for each server that runs the `AutomationService`. The `AutomationService` automatically performs load balancing when installed on multiple servers.
4. Launch the `Automation Service Console` and configure the connection to the database.

Automation Service Activity Monitor

1. Extract the contents of `151120_ASAMon 8.5.1.16.1568.zip` to a temporary directory. This creates the following directories:
 - `ASAMon.Application`
 - `ASAMon.Config`
2. Copy the contents of the `ASAMon.Application` directory applicable to your operating system bits to the installation directory, such as `C:\ASAMon\`
3. Copy the contents of `ASAMon.Config` to the installation directory.

Server Name

1. Go to the `Automation Service Activity Monitor` installation folder and open `fmlogin.ini` in a text editor.
2. Enter the server name for all `DBLogin` parameter instances. For example:
[BON]
`DBLogin=<server name>/BON/MICROS,BON,myinvenMenu.ini`
3. If you are using a Microsoft SQL server, navigate to `Automation Service Activity Monitor` installation folder and open `sql.config` in a text editor.
4. Update the server name and service name:
`<servers>`

```
<server name="<server name used in FMLOGIN.INI>"><DbBrand
value="SQLSERVER"/>
<ServiceName value="<Name of the MSSQL Server Instance>" />
</server>
</servers>
```

Database Maintenance (DBMaintenance)

1. Make sure the Microsoft .NET Framework is installed.
2. Make sure the databases to update are version 1448 or higher.
3. Depending on your operating system bits, extract the contents of
151211_myinventory_DBMaintenance (32-bit)_8.5.1.8.1568.zip or
151211_myinventory_DBMaintenance (64-bit)_8.5.1.8.1568.zip.
4. Double-click the extracted setup file and follow the instructions:
 - a. Select the installation directory, such as C:\myinventory Database Maintenance (XX-bit)
 - b. If you are using an Oracle Database server, select **Oracle** and then enter the **SQLNet Connection Name**.
 - c. If you are using a Microsoft SQL server, select **SQL** and then enter the location of the **Driver File**.

Maximum Number of Parallel Database Updates

1. Go to the Database Maintenance installation folder and open `fmlogin.ini` in a text editor.
2. Update the following parameter:

```
[BatchUpdate]
MaxThreads= Number of threads
```

Depending on your hardware configuration, enter a value between 10 and 30.

Server Name

1. Go to the Database Maintenance installation folder and open `fmlogin.ini` in a text editor.
2. Enter the server name for all `DBLogin` parameter instances. For example:

```
[BON]
DBLogin=<server name>/BON/MICROS,BON,myinvenMenu.ini
```
3. If you are using a Microsoft SQL server, navigate to Database Maintenance installation folder and open `sql.config` in a text editor.
4. Update the server name and service name:

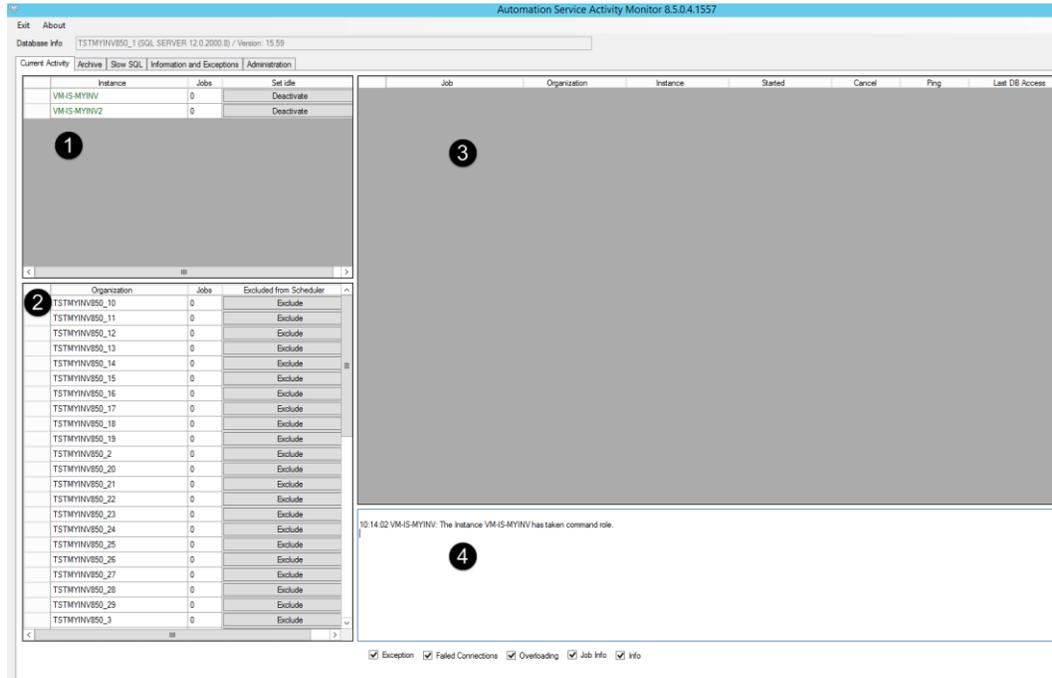
```
<servers>
<server name="<server name used in FMLOGIN.INI>"><DbBrand
value="SQLSERVER"/>
<ServiceName value="<Name of the MSSQL Server Instance>" />
</server>
</servers>
```

Start the Inventory Management Services and Verify Installation

1. Start the **DGService**, **delegateSys.myinventoryAutomation2**, **WebClient**, and **myOrganization** services, and then log in to Inventory Management.
2. Run the AutomationService Console, make sure jobs are running in the AutomationService, and make sure sales booking is successful.
3. Review the logs for any errors.
4. The *Oracle Hospitality Inventory Management Security Guide* provides more information and instructions on Inventory Management security.

3 Using and Configuring the Automation Service Activity Monitor

The following figure shows the Automation Service Activity Monitor:



The following table describes the numbered panels in the figure:

Panel	Column	Description
1	Instance	All Servers running AutomationService Connecting to the Master database. Red (not active) Green (Automation Service is running).
	Jobs	Current count of jobs running per Instance.
	Set idle	Deactivate or activate the Instance from Load balancing pool.
2	Organization	Name of the organization configured in the Master Database.
	Jobs	Count of jobs running per Organization.
	Exc. from Scheduler	Exclude the selected organization from the Scheduler.
3	Job	Currently running job.
	Organization	Organization name.
	Instance	Server on which the job is running.
	Started	When the job started.
	Cancel	Action to cancel the job currently running.
	Ping	Check if the job is responding.
	Last DB Access	Date time of last Access to the DB of this job.

4	Log of finished jobs.
---	-----------------------

Archive Tab

The following figure shows the Archive tab. The tab shows jobs that have executed based on filters that you select. Job details such as start and end times, status, and the number of SQL queries fired against the database appear. You can access the log for a job by double-clicking the log file entry at the bottom of the window.

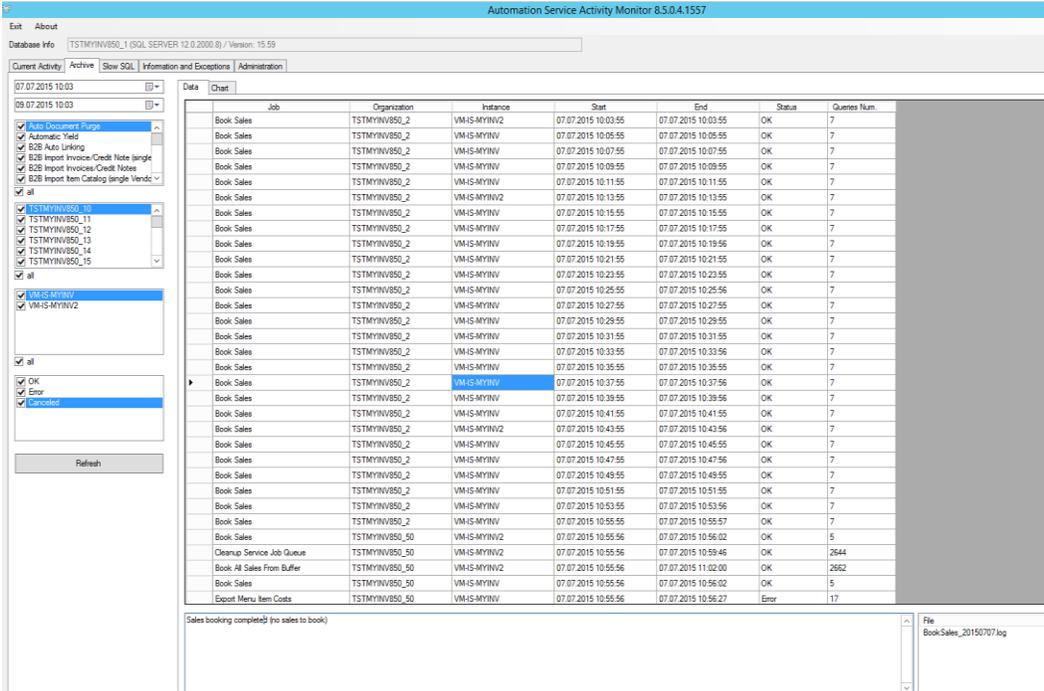
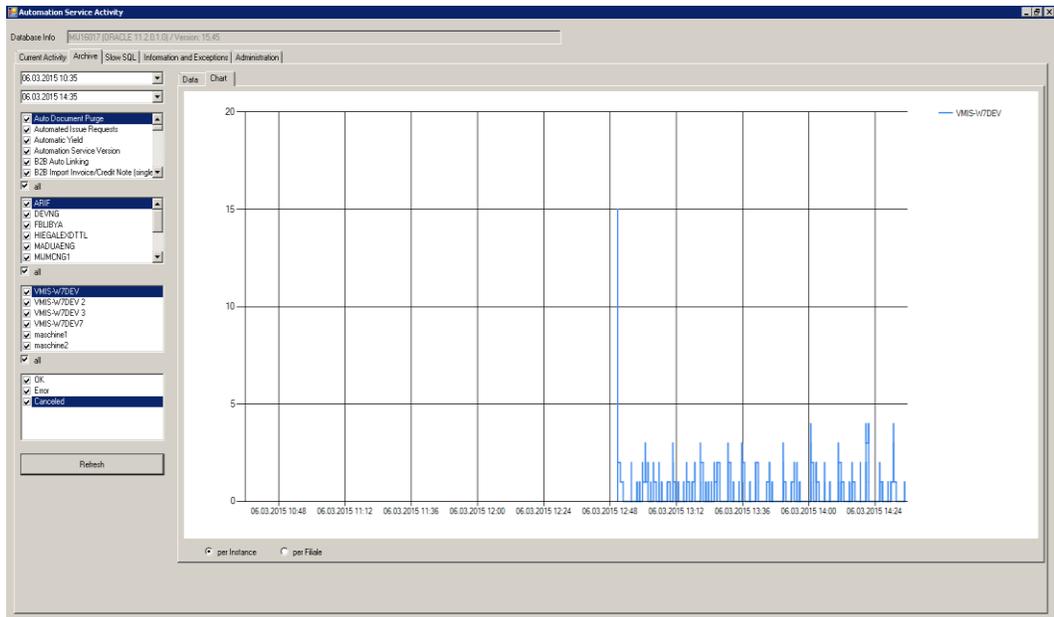
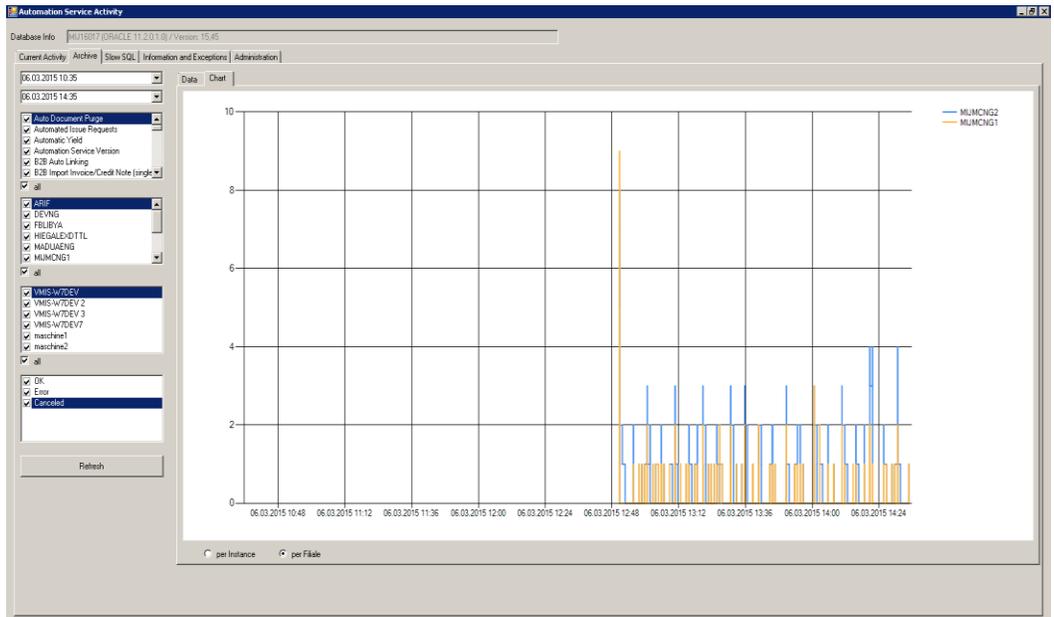


Chart Subtab

The X axis shows the time period and the Y axis shows the number of executed jobs per AS instance or organization (defined by the radio-buttons on the chart).



Each instance or organization has a different color according to the legend at the top right of the chart.



Slow SQL Tab

This tab shows information about SQL statements that have exceeded a configured time in seconds for executing. Application and Database Administrators use the information to identify slow-running SQL statements for tuning the Database or Application Servers.

Automation Service Activity Monitor 8.5.0.4.1557

Database Info: TSTMYNIN850_1 (SQL SERVER 12.0.2000.8) / Version: 15.59

Current Activity | Archive | Slow SQL | Information and Exceptions | Administration

Job	Time	Duration (s)	Organization	Instance	Select	Parameters	Stack
Book Sales from myInventory	07.07.2015 11:48	111	TSTMYNIN850_50	VM-IS-MYINV2			DbConnection.SqlExecuteSalesBuaine...
Book Sales from myInventory	07.07.2015 11:13	27	TSTMYNIN850_50	VM-IS-MYINV			DbConnection.SqlExecuteSalesBuaine...

```

DELETE FROM BONIER
WHERE brng_id = @brng_id
AND bon_merge = 0
AND bon_unisatz = 0
AND (snulbon_weight, 0) = 0 /* Processed */
    
```

DbConnection.SqlExecute
SalesBusinessProcessObject CheckNew
SalesBusinessProcessObject SalesBookingProcess
BookSpecificSales Book
RunTimeMethodInfoSide InvokeMethod
RunTimeMethodInfo.InvokeMethodInternal

Information and Exception Tab

This tab shows details about executed jobs their status, failed connections and exceptions. Message types can be:

- Exceptions: Program errors
- Job Info: Information about the jobs, such as start and finish details
- General Info: Server messages
- Failed Connections: Database connections lost
- Server Overloading: Actions that are taking longer than expected

Automation Service Activity Monitor 8.5.0.4.1557

Database Info: TSTMYYNVS0_1 (SQL SERVER 12.0.2000.8) / Version: 15.59

Time	Job	Type	Organization	Instance	Info	Stack
07.07.2015 10:07		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 10:06		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 10:06		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 10:05	Book Sales	Job Info	TSTMYYNVS0_2	VM-IS-MYINV	(TSTMYYNVS0_2) The Job...	
07.07.2015 10:05	Book Sales	Job Info	TSTMYYNVS0_2	VM-IS-MYINV	(TSTMYYNVS0_2) The Job...	
07.07.2015 10:05		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 10:04		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 10:04		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 10:03		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 10:03	Book Sales	Job Info	TSTMYYNVS0_2	VM-IS-MYINV2	(TSTMYYNVS0_2) The Job...	
07.07.2015 10:03	Book Sales	Job Info	TSTMYYNVS0_2	VM-IS-MYINV2	(TSTMYYNVS0_2) The Job...	
07.07.2015 10:03		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 10:02		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 10:02		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 10:01	Book Sales	Job Info	TSTMYYNVS0_2	VM-IS-MYINV	(TSTMYYNVS0_2) The Job...	
07.07.2015 10:01		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 10:01	Book Sales	Job Info	TSTMYYNVS0_2	VM-IS-MYINV	(TSTMYYNVS0_2) The Job...	
07.07.2015 10:00		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 10:00	Book Sales	Job Info	TSTMYYNVS0_2	VM-IS-MYINV	(TSTMYYNVS0_2) The Job...	
07.07.2015 10:00		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 09:59	Book Sales	Job Info	TSTMYYNVS0_2	VM-IS-MYINV	(TSTMYYNVS0_2) The Job...	
07.07.2015 09:59		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 09:59		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 09:58		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 09:58		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 09:57		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 09:57	Book Sales	Job Info	TSTMYYNVS0_2	VM-IS-MYINV	(TSTMYYNVS0_2) The Job...	
07.07.2015 09:57		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 09:57	Book Sales	Job Info	TSTMYYNVS0_2	VM-IS-MYINV	(TSTMYYNVS0_2) The Job...	
07.07.2015 09:56		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 09:56		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 09:55		Connection Failed		VM-IS-MYINV	Not possible to connect to t...	at System.Data.SqlClient...
07.07.2015 09:55	Book Sales	Job Info	TSTMYYNVS0_2	VM-IS-MYINV	(TSTMYYNVS0_2) The Job...	

Not possible to connect to the Organization 50. Incorrect syntax near '...'. at System.Data.SqlClient.SqlConnection.OnError(SqlException exception, Boolean breakConnection) at System.Data.SqlClient.TdsParser.ThrowExceptionAndWarning() at System.Data.SqlClient.TdsParser.Run(SqlBehavior runBehavior, SqlCommand cmdHandler, SqlDataReader dataStream, BulkCopySimpleResultSet bulkCopyHandler, TdsParserStateObject at System.Data.SqlClient.SqlDataReader.get_MetaData() at System.Data.SqlClient.SqlDataReader.get_MetaData() at System.Data.SqlClient.SqlCommand.FinishExecuteReader(SqlDataReader ds, RunBehavior runBehavior, String resetOptionsString)

Administration tab

Number of Slow SQL Rows: 2

Delete older than...

08.07.2014 09:59

Count of rows in this table and the option to delete the rows if they are no longer needed.

Number of Exception/Info Rows: 8609

Delete older than...

08.07.2014 09:59

Count of rows in Exception / Info table and the option to clean this table.

Number of Archive Rows: 719

Delete older than...

08.07.2014 09:59

Count of rows in archive table and the option to clean this table.

Max. concurrent Jobs per Database Server

40

Maximum Numbers of Parallel running Jobs per Database Instance (Not Physical Server).

LOG SQLs with Duration greater than (seconds)

10

Configuration in Seconds for SQLs that should be logged in Slow SQL tab.

LOG Execution Plan for SQLs with Duration greater than (seconds)

60

Configuration in Seconds for SQLs where Execution plan should be logged.

Max. size of Log and Archive Tables (rows)

100000

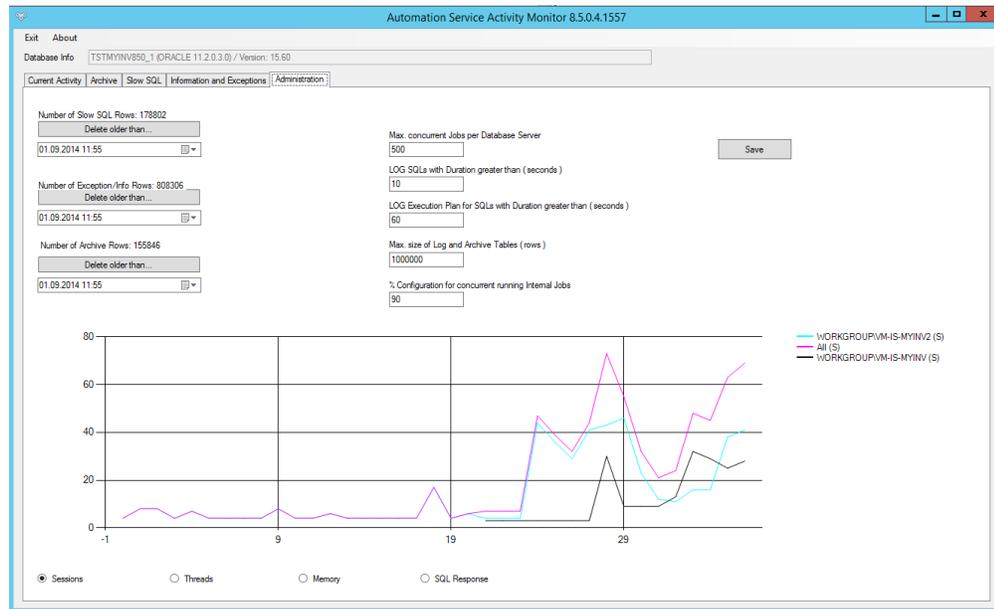
Max Size of Archive Table before the system starts erasing records.

% Configuration for concurrent running Internal Jobs

0

Number of Concurrent running internal jobs allowed like Calculate Average usage job per Store.

To get access to the screen shown in the following figure, the user for the Master database needs read access to v\$session View of the SYS User.



Additional Configuration options for AutomationService

Inventory -> Maintenance -> Settings -> AUTOMATION

BOOKINGSALESJOBMAXCONCURRENT:

Maximum number of concurrent Booking Sales jobs. Default 10, maximum 50. Increase for processing large volume of sales.

BOOKSALESJOBINTERVAL:

Enter time in minutes, to wait between Booking Sales from Inventory Management jobs (Sales stuck in Buffer) running, when over 5000 records exist. Blank = Default of 5 minutes.

AutomationService Instance Configured in AutomationService.exe.config

MaxThreadsForce:

If T, then AS tries to execute MaxThreads number of parallel jobs. If F, then AS never exceeds MaxThreads, but tries to calculate the best and then work with that (default and recommended is F).

4 Enable Transport Layer Security (TLS) 1.2

Oracle recommends enabling and using the Transport Layer Security (TLS) 1.2 protocol on your server.

1. Start the registry editor by clicking on **Start** and **Run**. Enter regedit, and then click **Run**.
2. Select **Computer** at the top of the registry tree. Backup the registry first by clicking **File** and then **Export**. Select a file location to save the registry file.
Note: You will be editing the registry. This could have detrimental effects on your computer if done incorrectly, so it is strongly advised to make a backup.
3. Browse to the following registry key:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols
4. Right-click the **Protocols** folder, click **New**, and then select **Key** from the drop-down menu. Rename the new folder to **TLS 1.2**.
5. Right-click the **TLS 1.2** key and add two new keys underneath it.
6. Rename the two new keys as follows:
 - Client
 - Server
7. Right-click the **Client** key, click **New**, and then select **DWORD (32-bit) Value** from the drop-down list.
8. Rename the **DWORD** to **DisabledByDefault**.
9. Right-click **DisabledByDefault** and click **Modify** from the drop-down menu.
10. Ensure that the **Value** data field is set to **0** and the **Base** is **Hexadecimal**. Click **OK**.
11. Create another **DWORD** for the **Client** key.
12. Rename the new **DWORD** key to **Enabled**.
13. Right-click **Enabled** and click **Modify** from the drop-down menu.
14. Ensure that the **Value** data field is set to **1** and the **Base** is **Hexadecimal**. Click **OK**.
15. Repeat steps 7 to 14 for the **Server** key (by creating two **DWORDs**, **DisabledByDefault** and **Enabled**, and their values underneath the **Server** key).
16. Restart the server.