

# Oracle® Communications MetaSolv Solution ASR Installation Guide



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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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# Preface

This guide contains the procedures and information you need to install Access Service Request (ASR) 66 on MetaSolv Solution 6.3.1.

For future service packs, refer to the respective ASR release notes document for the minimum required version of MetaSolv Solution. You should always install different ASR versions in sequence, starting with the earlier ASR version. For example, install or apply the service pack for ASR 64 before ASR 65, ASR 65 before ASR 66, and so on.

This guide includes some information on third-party software products used by MetaSolv Solution. However, this is limited to information needed to install and perform initial configuration tasks. If you need additional information on a third-party software application, consult the documentation provided by the product's manufacturer.

## Audience

This guide is for individuals responsible for installing or maintaining MetaSolv Solution and ensuring the software is operating as required. This guide assumes that you have a working knowledge of Oracle Database, Windows, and UNIX, if required.

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## Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

# 1

## Installing ASR 66 on MetaSolv Solution 6.3.1

This chapter explains how to install Access Service Request (ASR) 66 on MetaSolv Solution 6.3.1.

### Pre-Installation Checklist

Ensure the following:

- You have installed MetaSolv Solution 6.3.1.
- The following environmental variables are set:

```
PATH={jdk1.8}/bin:$PATH
JAVA_HOME={jdk1.8}
MW_HOME= {Oracle_Home}
```

where

- *{jdk1.8}* is the location where you installed JDK 1.8.
- *{Oracle\_Home}* is the directory location where Oracle Fusion Middleware components are installed. This directory contains the base directory for WebLogic Server.
- The logging configuration files of ASR is merged into **loggingconfig.xml** of MSS. To enable logging in ASR, add the following configuration in the **loggingconfig.xml** file located at *MSLV\_HOME/appserver/config* directory.

If you are installing in a clustered environment, you must add the following configuration in every managed server's config directory.

```
<!--
Add this entry in the <Appenders> element
-->
    <RollingFile name="XMLFileAppASR66" fileName="${sys:mslv.log.dir}/
appserver_ASR66.log"
        filePattern="${sys:mslv.log.dir}/appserver_ASR66-%i.log">
        <PatternLayout>
            <pattern>%d{MM-dd-yyyy HH:mm:ss,SSS}|%p|%m%n</pattern>
        </PatternLayout>
        <Policies>
            <SizeBasedTriggeringPolicy size="10 MB" />
        </Policies>
        <DefaultRolloverStrategy max="10"/>
    </RollingFile>

<!--
Add this entry in the <Loggers> element
-->
    <logger name="ASR66" level="error" additivity = "false" >
    <appender-ref ref="XMLFileAppASR66"/>
    </logger>
    <logger name="mm.Integration.ASR66API" level = "error" additivity = "false" >
```

```
<appender-ref ref="XMLFileAppASR66"/>  
</logger>
```

## Installing ASR

To install ASR:

1. From *MSLV\_Home*, enter the following command:

```
java -jar Asr.R66_0_0.buildNo_M63.jar
```

where:

- *MSLV\_Home* is the directory in which the MetaSolv Solution software is installed.
- *buildNo* is the build number that contains the ASR installer.

For example:

```
java -jar Asr.R66_0_0.b32_M63.jar
```

The Select MetaSolv home directory window appears.

2. From the **Look In** list, click the down arrow and select a directory in which the installation program files can be stored and used during the installation process, and then click **Select**.

A directory named **asr66installer** is automatically created in the selected directory. Oracle recommends choosing your *MSLV\_Home* directory for this task. *MSLV\_Home* is the directory in which the MetaSolv Solution software is installed.

The installation program auto-launches the installation process by invoking **setup.sh** (UNIX/Linux) or **setup.cmd** (Windows) in the *MSLV\_Home/asr66installer* directory.

The welcome screen for the MetaSolv Solution ASR installation appears.

3. Click **Next**.

The Details window appears.

4. Enter the path and name of the MetaSolv Home directory, MetaSolv Domain directory, and MetaSolv Server directory or click **Open** to search for the directories.

5. Click **Next**.

The Install Type window appears.

6. Select any one of the following installation types:

- Install all ASR Files
- Install Only ASR EAR File

When prompted for the Install Type, if the environment is a clustered environment, you can choose an option to extract the **.EAR** file only. Use this option to extract the **.EAR** file on the administration server for deployment to separate managed servers. For a non-clustered environment, choose the option to install and deploy all files.

7. Click **Next**.

The Install Summary window appears.

8. Click **Finish**.
9. Restart the application server.

If there are multiple servers running in the domain, all servers should be restarted before deploying the application from the Management Console.

 **Note:**

If there are multiple servers running in the domain, you must run the ASR installation for each server instance.

10. Continue with the procedures in "[Applying the Contents of the Stored Procedures and Prodfixsql Directories](#)".

## Applying the Contents of the Stored Procedures and Prodfixsql Directories

To apply the contents of the stored procedures and prodfixsql directories:

1. Run the **prefixSQL\_Master.sql** file located in the *MSLV\_Home/server/appserver/sql/ASR66/prodfixsql* directory that was created during the install to apply the contents of the ASR prodfixsql directory to the database.

where:

- *MSLV\_Home* is the directory in which the MetaSolv Solution software is installed.
- *server* is the name of the WebLogic Server.

The **prefixSQL\_Master.sql** script calls all of the other SQL scripts delivered in the directory.

2. Run the **asr\_master.sql** file located in the *MSLV\_Home/server/appserver/sql/ASR66/procs* directory that was created during the installation to apply the contents of the ASR procs directory to the database.

The **asr\_master.sql** file creates or replaces a series of stored procedures used in Ordering and Billing Forum (OBF) validation. These validations are for the Access Services Ordering Guidelines (ASOG) 65 and ASOG 66 versions. MetaSolv Solution created the single **asr\_master.sql** script to call all of the other SQL scripts delivered in the directory.

3. Run the **asr\_audit\_master.sql** file located in the *MSLV\_Home/server/appserver/sql/ASR66/procs* directory that was created during the installation to apply the contents of the ASR procs directory to the database.

The **asr\_audit\_master.sql** file creates or replaces a series of stored procedures and triggers used in capturing the audit and supplement history for ASR orders.

4. Run **DBHealth** to recompile all invalid objects.

To run a higher ASR version on a computer that runs a lower version, you must apply the stored procedures and prodfixsql of the higher version.

For example, you may run ASR 66 on a computer where you installed an ASR 65 service pack and applied the associated stored procedures and prodfixsql. To run ASR 66 effectively, you must apply the stored procedures and prodfixsql for ASR 66 to override those that you applied for the ASR 65 service pack.

## Deploying ASR on the Application Server in a Single Server Environment

Deploying ASR on the application server in a single server environment involves the following steps:

- [Undeploying the Existing ASR Application from the Application Server](#)
- [Deploying ASR Application on the Application Server](#)

### Undeploying the Existing ASR Application from the Application Server

If you are installing an ASR66 patch or have ASR66 already deployed, undeploy the existing ASR from the application server.

To undeploy the existing ASR from the application server:

1. Start the WebLogic Server Administration Console using the following URL:  
`http://ServerName:Port/console`  
where:
  - *ServerName* is the name of the administration server.
  - *Port* is the administration server port number.For example:  
`http://wplsunsvr:7001/console`
2. Enter the administration server user name and password when prompted and press **Enter** to log on.
3. Under **Change Center**, click **Lock & Edit**.
4. Expand the **Domain Structure** tree and click **Deployments**.  
The Summary of Deployments window appears.
5. On the **Control** tab, select **ASR66**.
6. From the **Stop** list, select **Force Stop Now**.  
Ensure that the state of the ASR 66 application has changed from **Active** to **Prepared**.
7. On the **Configuration** tab, select **ASR66** and click **Delete**.  
The Delete Application Assistant window appears.
8. Click **Yes**.  
The ASR 66 application is undeployed along with the ASR 66 Web Services.
9. Under **Change Center**, click **Activate Changes**.

### Deploying ASR Application on the Application Server

Before you deploy ASR, ensure that the following server is running:

- Administration server

If it is not running, start it using the following startup script:

For UNIX:

```
domain_directory/startServerName.sh
```

For Windows:

```
domain_directory/startServerName.cmd
```

where:

- *domain\_directory* is the WebLogic Server domain directory.
- *ServerName* is the name of the administration server.

To deploy ASR on the application server:

1. Start the WebLogic Server Administration Console using the following URL:

```
http://ServerName:Port/console
```

where:

- *ServerName* is the name of the administration server.
- *Port* is the administration server port number.

For example:

```
http://wplsunsvr:7001/console
```

2. Enter the administration server user name and password when prompted and press **Enter**.
3. Under **Change Center**, click **Lock & Edit**.
4. Expand the **Domain Structure** tree and click **Deployments**.  
The Summary of Deployments window appears.
5. On the **Configuration** tab, select **Install**.  
The Install Application Assistant window appears.
6. Under **Current Location**, navigate to the directory from which you want to deploy ASR 66 (for example, **opt/metasolv/mslv01/appserver/deploy**), select **ASR66.ear**, and then click **Next**.  
The Choose targeting style window appears.
7. Select **Install this deployment as an application** and click **Next**.
8. Under **Source accessibility**, select **I will make the deployment accessible from the following location**.
9. Click **Finish**.
10. Under **Change Center**, click **Activate Changes**.
11. Expand the **Domain Structure** tree and click **Deployments**.  
The Summary of Deployments window appears.
12. On the **Control** tab, select **ASR66**.
13. From the **Start** list, select **Servicing all requests**.  
The Start Application Assistant window appears.
14. Click **Yes**.

Ensure that the state of the ASR 66 application has changed from **Prepared** to **Active**, which indicates that the ASR 66 application has been deployed along with the ASR 66 Web Services.

## Deploying ASR on the Application Server in a Clustered Environment

If the administration server for the domain is on a machine where no managed server process is running, you can run the ASR installer and select the option to only extract the **.EAR** file. The **.EAR** file must reside on the machine where the administration server is running in order to deploy to the managed servers in the domain.

Deploying ASR on the application server in a clustered server environment involves the following steps:

- [Undeploying the Existing ASR Application from the Application Server](#)
- [Deploying ASR Application on the Application Server](#)

### Undeploying the Existing ASR Application from the Application Server

If you are installing an ASR66 patch or have ASR66 already deployed, undeploy the existing ASR from the application server.

To undeploy the existing ASR from the application server:

1. Start the WebLogic Server Administration Console using the following URL:

`http://ServerName:Port/console`

where:

- *ServerName* is the name of the administration server.
- *Port* is the administration server port number.

For example:

`http://wplsunsvr:7001/console`

2. Enter the administration server user name and password when prompted and press **Enter**.
3. Under **Change Center**, click **Lock & Edit**.
4. Expand the **Domain Structure** tree and click **Deployments**.  
The Summary of Deployments window appears.
5. On the **Control** tab, select **cluster-ASR66**.
6. From the **Stop** list, select **Force Stop Now**.

Ensure that the state of the ASR 66 application has changed from **Active** to **Prepared**.

7. On the **Configuration** tab, select **cluster-ASR66** and click **Delete**.

The Delete Application Assistant window appears.

8. Click **Yes**.

The ASR 66 application is undeployed along with the ASR 66 Web Services.

9. Under **Change Center**, click **Activate Changes**.

## Deploying ASR Application on the Application Server

Before you deploy ASR, ensure that the following servers are running:

- Administration server

If it is not running, start it using the following startup script:

For UNIX:

```
domain_directory/startAdminServer.sh
```

For Windows:

```
domain_directory/startAdminServer.cmd
```

where *domain\_directory* is the WebLogic Server domain directory.

- Managed server or servers

Start any managed servers that are not running using the following startup script:

For UNIX:

```
domain_directory/startServerName.sh
```

For Windows:

```
domain_directory/startServerName.cmd
```

where:

- *domain\_directory* is the WebLogic Server domain directory.
- *ServerName* is the name of the administration server.

To deploy ASR on the application server:

1. Start the WebLogic Server Administration Console using the following URL:

```
http://ServerName:Port/console
```

where:

- *ServerName* is the name of the administration server.
- *Port* is the administration server port number.

For example:

```
http://wplsunsvr:7001/console
```

2. Enter the administration server user name and password when prompted and press **Enter**.
3. Under **Change Center**, click **Lock & Edit**.
4. Expand the **Domain Structure** tree and click **Deployments**.  
The Summary of Deployments window appears.
5. On the **Configuration** tab, select **Install**.  
The Install Application Assistant window appears.
6. Under **Current Location**, navigate to the directory from which you want to deploy ASR 66 (for example, **opt/metasolv/mslv01/appserver/deploy**), select **cluster-ASR66.ear**, and then click **Next**.

The Choose targeting style window appears.

7. Select **Install this deployment as an application** and click **Next**.

The Select deployment targets window appears.

8. Under **Clusters**, select **All servers in the cluster**.
9. Under **Source accessibility**, select **I will make the deployment accessible from the following location**.
10. Click **Finish**.
11. Under **Change Center**, click **Activate Changes**.
12. Expand the **Domain Structure** tree and click **Deployments**.

The Summary of Deployments window appears.

13. On the **Control** tab, select **cluster-ASR66**.
14. From the **Start** list, select **Servicing all requests**.

The Start Application Assistant window appears.

15. Click **Yes**.

Ensure that the state of the ASR 66 application has changed from **Prepared** to **Active**, which indicates that the ASR 66 application has been deployed along with the ASR 66 Web Services.