Oracle® DIVAdirector

Installation Guide

Release 5.2

E64055-03

March 2016

ORACLE®

Oracle DIVAdirector Installation Guide, Release 5.2

E64055-03

Contents

Preface

This document gives a basic understanding of system functionality and detailed instructions for installing Oracle DIVAdirector Release 5.2.

Audience

This document guides System Administrators through initial Oracle DIVAdirector system installation and configuration.

Documentation Accessibility

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Related Documents

For more information, see the following documents in the DIVAdirector documentation set:

- *Oracle DIVAdirector User's Guide*

- *Oracle DIVAdirector Administrator's Guide*

- *Oracle DIVAdirector Security Guide*

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.

Convention	Meaning
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

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Introduction

Oracle DIVAdirector is a graphical user interface (GUI) for Oracle DIVArchive systems. Your users locate and work with videos remotely, from any computer on your network, through the web-based interface. Administrators monitor and maintain the system and user accounts with minimal effort from anywhere you have access to your network.

You access DIVAdirector through a web browser using the HTTPS protocol. Some of the advantages of a web-based interface include:

- No GUI software installation is required.

- A browser-based GUI can be accessed from anywhere on the network.

- No client application configuration is necessary.

- No client updates need to be performed.

Using DIVAdirector you can

- Search for video clips by file name, date, category, and format.

- Define metadata fields that support search.

- Use Boolean operators and greater than-less than criteria. For example you can search for video clips of farm animals in the United States, but not in Nebraska or Kansas.

- Review located clips using the built-in media player.

- Extract selected frames, add them to a list of related clips, forward them to editing applications, or arrange them for distribution.

Preparing for Installation

Before the Oracle Delivery and Installation Team arrives at your site you must complete installation and configuration of your system hardware. You must assign IP addresses and storage locations, open ports in the firewall, complete network cabling, and so on. When the team arrives they will review the configuration specifications before starting the installation to ensure all necessary components are in place and accessible.

Installed hardware must meet or exceed the list of recommended minimum hardware specifications provided to you. The server host hardware must have Microsoft Server 2008 R2 or Windows 2012 R2 installed.

You configure the server host computer for operation within your network and restrict access to the server with a unique, secure password. Install Microsoft Internet

Information Server (IIS) 7 on the server host computer and confirm operation and network connectivity.

Any third party applications must be licensed and installed (for example Telestream). Have all DIVArchive configuration parameters set up including IP addresses and port configurations for storage devices, video servers, Avid Interplay (if in use), Oracle SAMMAsolo (if in use), Microsoft Cluster Manager (if in use), and so on. The team needs this information for reference during DIVAdirector installation.

You must have at least one fully operational client computer available for testing during and after installation. Client computers must have Microsoft Windows 7 Professional or Ultimate (either 32-bit or 64-bit) with Service Pack 1, or Mac OSX 10.6 (Snow Leopard) or later operating system installed and one of the following supported web browsers:

- IE 7, 8, and 9

    Note: Must be run in native mode, not in compatibility mode.

- Chrome 18.0

    Note: Playback of WMV and MOV clips are no longer supported in Google Chrome due to the End of Life (EOL) for NPAPI in this browser. Files in MP4 format will continue to play using Google Chrome.

- Firefox 12.0
- Safari 5.1.5

    Note: Drag and drop from the main right window to the left navigation pane is not supported. Drag and drop from and to the left navigation pane is supported

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Oracle DIVAdirector Software

This chapter discusses the software in general and identifies prerequisites for installation.

DIVAdirector Prerequisites

DIVAdirector Server requires either the Microsoft Server 2008 R2, or Microsoft Server 2012 R2 operating system.

The server can connect to Oracle DIVArchive 6.5 or later. You will install DIVAdirector Server, PostgreSQL database, DIVAdirector, and the following components:

- DIVAdirector Web Server 5.2
- DIVAdirector Server 5.2
- DDMedia 5.2
- PostgreSQL 9.4.4

The client computers must have either Microsoft Windows 7 Professional or Ultimate (either 32-bit or 64-bit) with Service Pack 1 (SP1), or Mac OSX 10.6 (Snow Leopard) or later. If the target computer runs Windows 7 but does not have SP1 installed, update the computer's operating system to the SP1 level through the Windows Update utility before installing DIVAdirector.

DIVAdirector 5.2 supports the following browsers in Windows 7:

- Internet Explorer 7, 8, and 9
- Chrome 18.0
- Firefox 12.0
- Safari 5.1.5
  - Drag-and-drop from the right main windows to the left navigation pane is not supported. Drag-and-drop from and to the left navigation pane is supported.

DIVAdirector 5.2 supports the following browsers in Mac OSX:

- Chrome 18.0
- Firefox 12.0
- Safari 5.1.5

Ensure that the computer name is set before running DIVAdirector installer. This is important because the computer name cannot be changed once DIVAdirector is installed since it invalidates the rights and permissions of the IIS user account.

Ensure that the computer's drives and network connections are correctly configured. Storage locations must have appropriate access rights, and network devices must have their login credentials configured to connect automatically.

Ensure the computer's Administrator account has a secure password.

If Teamviewer is being installed only use release 6 or later and use the following procedure to confirm the required settings:

1. In Teamviewer, click the **Extras** menu item, then navigate to **Options**, then **Advanced**.

2. Click the **Show advanced options** button.

3. Scroll down to the Advanced Network Options section of the screen and select the check box for ***Don't use incoming ports 80 and 443 (recommended for web servers only)***. This option may, or may not, be present depending on your release of Teamviewer.

4. Click the **OK** button and exit the Options area.

If you are performing an upgrade, DIVAdirector 5.2 can be upgraded from DIVAdirector 4.1 or earlier DIVAdirector 5.x releases. The upgrade is not compatible with DIVAdirector releases before 4.1 or (specifically) release 4.2. Verify that older releases of DIVAdirector are upgraded to 4.1 or 5.x before using the installer to upgrade to release 5.2.

DIVAdirector 5.2 New Features and Enhancements

DIVAdirector 5.2 includes the following new and enhanced features:

- PostgreSQL replaced the Linter Database Engine, providing better stability and performance.

- Support for Proxy Multi-Channel Audio.

- Integration support for Venera Rapid, Venera Pulsar, Tektronix Cerify, and Interra Baton to provide QC Report information for stored assets.

- Support for performing date queries through Basic Search.

- Support for performing Boolean query operations (AND, OR and NOT).

- Configurable number of search results for each page.

- Ability to download Proxy Videos locally.

See the *Oracle DIVAdirector Administrator's Guide* for detailed information on these enhancements.

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System Installation

This chapter discusses the DIVAdirector 5.2 installation and deployment.

Planning System Deployment

DIVAdirector consists of three main components which are installed on the same host and interact with each other:

- DIVAdirector Web Server (IIS)

- DIVAdirector Database

  - PostgreSQL DB Engine running as a service.

- DIVAdirector Server

  - Running as a service or desktop application.

It is highly recommended to install DIVAdirector on a host separate from the DIVArchive system to improve the performance of both systems. However, they may be installed together on the same computer for a standalone system.

Minimum System Configuration

The minimum system specifications for deploying DIVAdirector are as follows:

Quad Core Processor
2 GHz or higher

Memory
4 GB or higher

Network
(1) Gigabit Ethernet connection

System Drive
Hardware mirrored (RAID 1) 100 GB or higher using SATA, SAS or equivalent drives.

Proxy and Database Storage
Hardware RAID 5 (four drives - three plus one redundant) using SATA, SAS or equivalent drives. The size of the drives depends on the size of the system.

Modem
Required for dial-in support if a VPN connection is not available.

DVD-ROM Drive

8x or higher DVD-ROM. A CD drive can also be used but DVD is recommended.

Power

Recommended redundant hot-swap power supplies.

New System Installation

DIVAdirector Server is initially configured to have a single Proxy Drop Folder that is placed (by default) in the `C:\Program Files (x86)\DIVAdirector\pdf` folder. This Proxy Drop Folder is automatically configured to have the `<ORPHAN>` settings pointing to the `C:\Program Files\DIVAdirector\proxies` folder.

Use the following procedure to install DIVAdirector 5.2 on a new system:

1. Verify that the computer name is set before running the installer.

   - This is important because the computer name cannot be changed after DIVAdirector is installed since it invalidates the rights and permissions of the IIS user account.

2. Confirm that the Windows Update Service and Remote Registry Service are enabled before installation; they can be disabled after the installation completes. These services are required to allow a component within the installer called the Windows Desktop Experience to be installed.

3. Double-click the DIVAdirector installer to begin installation.

   - You will see an Installation Prerequisites Warning displayed.

4. Click **OK** to continue.

5. A dialog box is displayed if a previous release of DIVAdirector 5 is installed.

   - Click the **Yes** button to uninstall the previous release or the **No** button to leave the previous release in place.

6. Click the **Install** button to proceed.

   - The installer first checks if the Windows Desktop Experience or Windows Media Player is installed. If not, it will install the appropriate program. This will require a computer restart to continue the installation.

7. The installer program will continue after checking (and possibly restarting) the computer.

8. If performing a fresh install, select **Install DIVAdirector 5.2.0.x** as *Type of Install* (this is the default selection) and click the **Next** button. The list describes the various *Type of Install* list options. If upgrading from DIVAdirector 5.0 or DIVAdirector 4.1, choose the appropriate option in the list for the type of installation being performed.

   Install DIVAdirector 5.2.0.x
   Use this selection for new DIVAdirector installation where no previous release has been installed.

   Upgrade DD4 to DD5.2.0.x
   Use this selection to upgrade DIVAdirector from release 4.0 or 4.1 to DIVAdirector 5.2.

   Upgrade older DD5 to DD5.2.0.x
   Use this selection to upgrade DIVAdirector from release 5 to DIVAdirector 5.2.

> **WARNING:** In the next step, do not specify a path pointing to a network mapped drive if you intend to use a network share. Only UNC paths can be specified for the proxies folder. The reason is that drive mapping is performed for the interactive user session only; this drive mapping does not exist in the DIVAdirector Web Server service session. Although this dialog accepts a network proxy path, the corresponding changes must be performed to the DIVAdirector Web Server service user account manually.

9. Specify the *Proxies Folder Pathname*. *This page is not available if you are upgrading from DIVAdirector 5.0.*

   If the Proxy Folder is configured as a network share, the user must belong to the Administrators group and must be granted read and write access rights to the NAS-based proxy storage.

   If the system is expected to operate with a very large set of proxies it is highly recommended to have a dedicated drive, local storage (RAID, and so on), or NAS as proxy storage.

10. Click the **Next** button.

11. Specify the *Database Folder Pathname* (this folder must be empty) and click the **Next** button. *This page is not available if upgrading from an earlier release of DIVAdirector 5.2.*

12. Specify the *Database Backup Folder* for database backup and restore and click the **Next** button. *This page is not available if upgrading from an earlier release of DIVAdirector 5.2.*

13. Specify the *Binary Metadata Folder* for user upload of binary files and click the **Next** button. *This page is not available if upgrading from an earlier release of DIVAdirector 5.2.*

14. Specify the source location for *Local Archive* and then click **Next**.

15. Specify the destination location for *Local Restore* and then click **Next**.

16. Specify the location for the *Local Metadata Drop Folder* and then click **Next**.

17. Specify the location for the *SAMMA Metadata Folder* and then click **Next**.

18. Specify the location for the *QC Reports Folder* and then click **Next**.

19. Specify the DIVArchive Manager Connection Settings including the *DIVArchive Manager Port*, *DIVArchive Manager IP Address*, *DIVAdirector Server TCP Port* and *DIVAdirector Server Proxy Drop Folder Location*, and then click **Next**.

20. Specify the *Username* and *Password* for a local user account under which the DIVAdirector Web application will be run. A complex password is necessary. Click the **Install** button to continue.

21. Choose either the *Local System* or *This user (DOMAIN\User)* user account to use for the DIVAdirector Server service.

    Local System
    DIVAdirector will be limited to use only Local Proxy Storages due to Local System account native Windows limitations.

This user (DOMAIN/User)
The user account provided in the form `DOMAIN\User` will have access proxy storages configured as network shares. The user must belong to the Administrators group and must be granted read and write access rights to NAS-based Proxy Storage. If no domain or the '.' domain is specified, the Local System is implied as the account domain.

22. The installer will continue to run and will eventually prompt you for *QuickTime Player Options*. Click **YES** when prompted.

23. The QuickTime player will start automatically - close the player window to continue installation.

24. When the installation is complete you will be prompted to restart. Click **OK** to continue.

25. Choose *Reboot Now* and click **Finish**.

After the computer has restarted, login as Administrator and locate the Internet Information Services (IIS) Manager using the Windows Start Menu.

Once the IIS Manager loads, click the name of the computer where you are installing DIVAdirector, then **Sites**, and then **DIVAdirector 5**.

Verify that the DIVAdirector 5 website is running by confirming that the **Start** button on the right side of the screen is disabled (grayed out), indicating that the site is operational.

Optional Manual Adjustments

This section provides instructions for adapting the system if it is getting short on disk space.

Relocating DIVAdirector Database Files

Database files may be migrated to another storage system after installation if necessary. Use the following procedure to migrate the DIVAdirector database to another location:

1. Stop the DIVAdirector Server service. Using the Windows Task Manager verify that there are no DIVAdirector processes running.

2. Locate the PostgreSQL service in the Windows Services Administration window. The PostgreSQL service name has the format *postgres-[platform]-[release] - PostgreSQL Server [release]*. For example, *postgres-x64-9.2 - PostgreSQL Server 9.2*.

3. Stop the Postgres service. Using the Windows Task Manager, verify that there are no running Postgres processes.

4. Modify the PostgreSQL Service registry settings as follows:

   1. Open the Windows Registry Editor and navigate to `HKEY_LOCAL_ MACHINE\SYSTEM\CurrentControlSet\services`.

   2. Underneath this key is a key for the Postgres service. It will have the same name as the service located in step 2 - navigate to this key.

   3. Double-click the *ImagePath* value and find the *-D path* setting. Change the path to the new location. If the path contains spaces, enclose the path entry with quotations.

   4. Save the modified setting.

5. Modify the DIVAdirector database location registry setting as follows:

   1. Open the Windows Registry Editor and navigate to the appropriate registry key as follows:

      32-bit Systems
      ```
      HKEY_LOCAL_MACHINE\SOFTWARE\Front Porch Digital
      Inc.\DIVAdirector\DB
      ```

      64-bit Systems
      ```
      HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Front Porch Digital
      Inc.\DIVAdirector\DB
      ```

   2. Modify the registry value *PostgresDB* to the new database directory location.

6. If the Windows Services Administration window is still open, close and then reopen it.

7. Restart the PostgreSQL service.

8. Restart the DIVAdirector Server service.

Using Network Attached Storage (NAS) for the Proxy File Storage Folder

The Proxy File Storage Folder can become very large and can be placed on Internal Server Storage or on an External (larger) Network Attached Storage (NAS) Array by adding a new Proxy Storage Location pointing to a Shared Network Folder. Refer to the *Oracle DIVAdirector Administrator's Guide* for directions on adding a new Proxy Storage Location. The Network Path must be specified using the following UNC format:

```
\\hostname\sharename\subfolder\...\subfolder
```

The Microsoft Windows Local System account is restricted from accessing network resources; therefore a dedicated user account must be used instead. The same account must be granted access rights to read the Proxy folder on NAS. The Proxy folder must be configured to allow the user account running DIVAdirector Server to write to the Proxy folder.

To simplify these account settings, the same account may be used for running the DIVAdirector Web Server service and the interactive session with the DIVAdirector Server. This account must be granted read and write permissions for accessing the Proxy folder on the NAS. The user account running the DIVAdirector Web Server service must be a member of the Administrators group because typically this service must have access to the Program Files folder.

It is important to understand that using a path with a mapped drive letter (for example, K:\Proxies) is not supported because this path will be used by the DIVAdirector Web Server for opening proxy files upon user requests. The Web Server that runs as a service is not aware of mapped network drives because these are associated with an interactive user session.

> **Note:** See the *Oracle DIVAdirector Administrator's Guide* for step-by-step account configuration procedures.

Using Network Attached Storage (NAS) for Binary Storage

Binary storage may become very large, so it can also be placed on a NAS array if necessary by reconfiguring the DIVAdirector Binary Storage Virtual Directory to point

to a shared network folder. See the *Oracle DIVAdirector Administrator's Guide* for directions on configuring the DIVAdirector Binary Storage Virtual Directory.

The network path must be specified using the UNC format, for example:

```
\\hostname\sharename\subfolder\...\subfolder
```

The DIVAdirector Web Server user account used to run this service must be granted permissions to read and write the Binary Storage folder on the NAS. The user account running the DIVAdirector Web Server service must be a member of the Administrators group because typically this service must access the `Program Files` folder.

> **Note:** See the *Oracle DIVAdirector Administrator's Guide* for step-by-step Account Configuration Procedures.

Upgrading DIVAdirector 4 to DIVAdirector 5.2

If you are upgrading an existing DIVAdirector 4 system, it must be running one of the operating systems specified in "DIVAdirector Prerequisites."

Use the following procedure to upgrade from DIVAdirector 4 to DIVAdirector 5.2:

1. Perform a full database backup to a known location before starting any upgrade process. This can be done through the DIVAdirector 4 Web interface to produce a `.LHB` file. Alternatively, manually stop the DIVAdirector CMS Database Server service and then copy the entire contents of the database folder to an external drive or folder.

2. Run the installer and click the **Install** button to continue.

3. The installer first checks if the Windows Desktop Experience or the Windows Media Player is installed. If one of these is not found, it will install the appropriate application. This will require a computer restart to continue the installation.

4. Installation will continue after the computer has restarted. Select **Upgrade DD4 to DD5 Server** as the *Type of Install* using the list and click **Next**.

5. From this point forward, follow the same procedure as installing DIVAdirector onto a new system (see "New System Installation").

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ShuttlePro V2 or ShuttleXpress Control Pad Installation and Configuration

To setup and configure ShuttlePro V2 or ShuttleXpress Control Pads, run the installer supplied with the software by the manufacturer and navigate through the installation using the default selections. When complete, copy the Shuttle configuration file as follows:

For Mac OSX:

Copy `C:\Program Files (x86)\DIVAdirector 5\Support\etc\Pref file - Mac\com.contourdesign.shuttle.prefs` to `~/Library/Preferences/`.

For Microsoft Windows 7:

Copy `C:\Program Files (x86)\DIVAdirector 5\Support\etc\Pref file - Windows\CDIshuttle.pref` to `C:\Program Data\Contour Design`.

> **Note:** Windows requires privileges to show hidden files in the *Folder Settings* to see the `Application Data` or `Program Data` paths.

Once the setup is complete, you must set focus to the player (click once in the player area) before the Shuttle Control can be used.

Glossary

Data Store

A data repository of a set of integrated objects.

Lightweight Directory Access Protocol (LDAP)

The Lightweight Directory Access Protocol (LDAP) is an application protocol for accessing and maintaining Distributed Directory Information Services over an Internet Protocol (IP) Network.

Open Web Interface for .Net (OWIN)

OWIN defines a standard interface between .NET web servers and web applications. The goal of the OWIN interface is to uncouple server and application, encourage the development of simple modules for .NET web development, and, by being an open standard, stimulate the open source ecosystem of .NET web development tools.

Proxy

In DIVAdirector, *proxy* refers to a lower resolution form of the asset that is archived in Oracle DIVArchive.

Root (SuperAdmin)

The DIVAdirector *SuperAdmin* is a special user account used for System Administration. In DIVAdirector this account is named `admin` and is identified with an authorization flag in the user's profile, allowing administrative functions to be performed.

Universal Naming Convention (UNC)

The Universal Naming Convention specifies a common syntax to describe the location of a network resource, such as a shared file, directory, or printer. The UNC syntax for Windows Systems has the generic form `\\ComputerName\SharedFolder\Resource`.