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US patent # 8,390,684 B2 for Ocularis Client
Additional Patents Applied For in the U.S. and Abroad
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**Introduction**

**Overview**

Regardless of the Ocularis feature set, the Ocularis Base component uses a Microsoft SQL Server Express database to store configuration and authentication resources used by Ocularis.

This SQL database for the Ocularis Base software should not be confused with the databases used to store live and recorded video and audio data.

**Purpose**

The purpose of this document is to identify the procedures on how to backup Ocularis configuration and migrate the data to a new SQL server instance if necessary.

**Target Audience**

The target audience for this document is surveillance system administrators and/or database administrators who are responsible for data integrity and system maintenance.
Backup of Ocularis Base Configuration Data

The following procedure backs up the data in the SQL Server database used with Ocularis Base. Use this procedure when you:

- need to switch the hardware used for Ocularis Base
- need to recover after reinstalling the operating system
- desire to make a system backup

This procedure may be used to back up Ocularis Base data with any Ocularis model. Please note that it will only back up configuration information from Ocularis Base.

Summary of Steps

1. Backup Ocularis Service Folders (only if using maps, icons, and bookmarks)
2. Backup the Ocularis Base SQL Database.

If you intend to migrate the database to another machine:

1. Install Ocularis Base
2. Restore the Ocularis Service Folders
3. Restore the Ocularis Base SQL Database
4. Modify the Security Settings in the SQL Database
Backup Ocularis Service Folders

(Move to next step if you don’t wish to backup maps, icons, and bookmarks)

Backup the existing Ocularis Service folders. These folders store resources used in Ocularis and are found in the following directory on the Ocularis Base Server machine:

C:\inetpub\wwwroot\OcularisService

Folders to back up include:

- Assets
- Bookmarks¹
- EventThumbnails
- Icons
- Maps

Copy these folders to an external source such as a thumb drive or network share.

¹ This is the default location for Bookmarks. During the Ocularis Base installation this location may have been changed by the system administrator.
Backup the Ocularis Base SQL Database

Use this procedure to backup the database used to store Ocularis Base configuration data.

To Backup Ocularis Base SQL Database

1. Log into SSMS (SQL Server Management Studio). If you need to install SSMS, please refer to page 18.

2. Once logged into SSMS, expand the Databases folder and right-click the VSEvents database.

3. Choose Tasks > Back Up…

4. On the General page of the Back Up Database pop-up, take note of the Destination path and Name of the Backup set (or choose one yourself).
5. On the **Options** page, select these options:
   a. In the **Overwrite media** section, choose ‘Overwrite all existing backup sets’
   b. In the **Reliability** section, check ‘Verify backup when finished’
   c. Click **OK**.

6. Once the task is completed, copy the Backup file to an external source.
Migrating Backup Data and Database

Use the following procedure to migrate the Ocularis database to a new or rebuilt server:

1. Install the Ocularis Base software component on the new or rebuilt server.
   a. You must notify OnSSI that you have installed Ocularis Base on a server. We can increase your license activation count so you may activate this new server.
   b. Once the Base component is installed and OnSSI has increased your activation count, please activate your license at this time.

2. Stop the OnSSI Event Coordinator Service in local services.

3. Paste (replace) the folders backed up from

4. Backup Ocularis Service Folders on page 6 into the directory:

   C:\inetpub\wwwroot\OcularisService

5. Install SQL Server Management Studio (SSMS) on your new Base server. (see How to Install SQL Server Management Studio on page 18.

6. Once installed, log into SSMS using the Windows Account.
   a. Expand the Databases folder and right-click the VSEvents database.
   b. Choose Tasks > Restore > Database...
7. On the **General** page of the *Restore Database* pop-up, in the ‘Source for restore’ section:
   a. Choose **From device**, and click the ellipses to browse for the file.
   
   b. Browse for the Backup file saved in Backup the Ocularis Base SQL Database on page 7.
c. Select the .bak file and click **OK**.

d. Mark the check box for the backup set to **Restore**.

8. In the **Options** page, check the box to ‘Overwrite the existing database (WITH REPLACE)’.
9. Click **OK**.

Process should execute successfully.

If the process fails:

- Leave the *Restore Database* screen open. (This is likely due to there being active connections to the database).
- Restart the service **SQL Server (OCULARISSERVER)**
- Click **OK** on the *Restore Database* screen.

It should execute successfully.
Recreating the Ocularis User

For the restored database, you must recreate the Ocularis User.

1. Expand the **VSEvents** database.
   a. Expand **Security**.
   b. Expand **Users**.
   c. If you still see the **OcularisUser** here, right-click the username and delete this user.
d. Click **OK**.
2. Under the **Security** folder, right-click the **OcularisUser** account and choose **Properties**.

![SQL Server Management Studio](image)

3. On the **User Mapping** page, select the **VSEvents** database.
   a. For the **Default Schema** field, enter **dbo**
   b. Check the box next to the **db_owner** under 'Database role membership for: VSEvents'.
4. Expand the **Security** folder under the **VSEvents** database again.
The **OcularisUser** account should appear in the **Users** folder now.

5. Right-click the **OcularisUser** account and choose **Properties**.
a. In the General page, scroll down the Role Members window, select the db_owner and click OK.

Testing the changes

1. Start the OnSSI Event Coordinator Service. The service should start successfully.
How to Install SQL Server Management Studio

SQL Server Management Studio is required in order to back up the Ocularis configuration database. With the introduction of Ocularis Base v3.8, when the ‘Typical’ option is chosen during the install of Ocularis Base, the SQL version that is installed is SQL Server 2008 Express 32-bit. Therefore, when SQL Server Management Studio (SSMS) is installed, you should install the 32-bit (x86) version. SSMS can be installed on any machine, however, for ease of use we recommend installing it on the Base server itself.

To Install SQL Server Management Studio

   (If link does not work, simply do a web search for SQL Server Management Studio 2008 Express).
2. Click the **Download** button.
3. Check the x86 version (**SQLManagementStudio_x86_ENU.exe**), and then click the **Next** button to start the download. Save the file to an easily accessible location.
4. Once the download completes, right click the .exe file, and select ‘Run as Administrator’ to run the setup file.

   ![Right Click Image]

   If you receive any Windows compatibility messages, just click OK to proceed with the install.

5. Select the ‘Installation’ section and click the option ‘New installation or add features to an existing installation’.

   ![Installation Image]

6. Check the box for ‘I accept the license terms’ and click the **Next** button. The installer will proceed to install Setup files.
If you receive a message to restart your machine during the Setup Support Rules, go ahead and restart. If this error continues to appear, follow the steps in the link below to clear out any Pending Operations:

http://www.sqlcoffee.com/troubleshooting051.htm

7. On the feature selection screen, if not already checked, check the box next to ‘Management Tools – Basic’, and then click Next.

8. On the Error reporting screen, click Next.

The installation should begin. If you encounter any other prompts, use the default setting and click Next to proceed.

The installation can take around 5 minutes to complete.

After the installation, you should see a success screen.

9. Click Close, and then you may also close the main ‘SQL Server Installation Center’ window.
To Open SSMS

1. To open SSMS, click on the Windows **Start > All Programs > SQL Server 2008 (R2) > SQL Server Management Studio**.

2. On the Login screen, use the default values and click **Connect**

You should be logged in. (your server name will be different but the database name should be ‘OCULARISSERVER’).