

Using the TestTrack ODBC Driver

The read-only driver can be used to query project data using ODBC-compatible products such as Crystal Reports or Microsoft Access. You cannot enter data using the ODBC driver; it only allows you to query TestTrack projects and create custom reports.

Installing the ODBC driver

1. Download the TestTrack Native ODBC Driver from Seapine's Web site:
www.seapine.com/downloads.html
2. Unzip the file using a program that supports long filenames, such as WinZip. Do not use DOS.
3. Open the directory and double-click the Setup.exe file.
The Welcome to TestTrack ODBC Setup dialog box opens.
4. Click Next.
The ODBC driver is automatically installed. When installation is complete click OK. You are now ready to configure the driver.

Configuring the ODBC driver

1. Opens the Windows Control Panel.
2. Open the ODBC Data Source Administrator.

Note: Click Add if you need to add an additional data source. The Create New Data Source dialog box opens. Scroll down and select TestTrack ODBC then click Finish. If you are creating multiple data sources, you must use a unique name for each data source.

3. On the User DSN tab, select **TestTrack ODBC Datasource** and click **Configure**.
The ODBC TestTrack Setup dialog box opens.
4. Optionally change the Data source name.
When you configure the data source, you may receive a 'system error code 126'. This happens when the system cannot find a specific DLL. The missing DLL, which is named ttc4dll.dll, is included in the zip file. Copy the DLL into the computer's system folder.
5. Click **Browse (>)** to set the Database path.
The Open dialog box opens.
6. Navigate to the directory you want to query.
The default location is the computer where the TestTrack Server is installed.
7. Click **Open**.
You return to the ODBC TestTrack Setup dialog box.

Note: Make sure Use Unique Indexes is selected. This option lets the ODBC driver automatically determine the primary key. If you do not select this option, you will need to manually select the primary key.

8. Click **OK**.

You return to the ODBC Data Sources Administrator dialog box.

9. Repeat steps 2-7 to create and configure new ODBC drivers for each TestTrack project you want to query.

Each project path is unique. You must create multiple ODBC drivers so each data source points to the correct project.

Microsoft Access example

This example builds a query that returns the number of defects found per date.

1. Start Microsoft Access and open a blank Access database.
2. Enter a database name and click **Create**.
3. Choose **File > Get External Data > Link Tables**.

The Link dialog box opens.

Note: Linking tables makes sure you are querying updated data. As data is entered into the TestTrack project it is automatically updated in the Access database. If you choose to import data instead of linking tables the data is not updated.

4. Select **ODBC Databases** from the **Files of Type** menu.

The Select Data Source dialog box opens.

5. Click the **Machine Data Source** tab.
6. Select the data source of the TestTrack project you want to link to.
7. Select **TestTrack ODBC Datasource** from the list and click **OK**.

The Link Tables dialog box opens.

8. Click **Select All** then click **OK**.

All the tables are linked to the database configured in the TestTrack data source.

Creating a query

This example uses Design View, SQL method. You do not have to use SQL.

1. Click the **Queries** button in the Object group.
2. Click **New**.

The New Query dialog box opens.

3. Select the method you want to use to create the new query and click **OK**.
4. Without adding tables or queries, click **Close** in the Show Table dialog box.
5. Click the **SQL** button on the Query Design toolbar and select **SQL view**.
6. Enter the following SQL query to return the number of defects found per date.

```
SELECT Count (*) AS Count, rb.datefound AS DateFound
FROM defects AS d, reportby AS rb
WHERE d.IDRECORD=rb.iddefrec
GROUP BY rb.DATEFOUND;
```

7. Click **Run** on the toolbar to run the query.

Note: When you run the query, you may receive an 'ODBC - cannot lock all records' error message. This occurs when the Access is set to lock records by default. The records cannot be locked because the TestTrack Server frontloads the database. To change this option choose Tools > Options. On the Advanced tab, select No locks in the default record locking area. Close and reopen the query for the new options to take effect.

8. Click **Close**.

You are prompted to save the query design. Click **Yes**.

Microsoft Excel example

This example builds a query that returns the Defect Number, Summary, and Status for open defects.

1. Start Microsoft Excel and open a new workbook.
2. Choose **Data > Get External Data > New Database Query**.
The Choose Data Source dialog box opens.
3. On the **Databases** tab, select **TestTrack ODBC Datasource** and click **OK**.
The Query Wizard - Choose Columns dialog box opens.
4. Select **Defects** from the **Available tables and columns** menu.
Click the plus sign to expand the Defects table and view the available columns.
5. Select the **DefectNum, Summary, and Status** fields and click the right arrow to add the fields to the **Columns in your query** list.
6. Click **Next**.
The Query Wizard – Filter Data dialog box opens.
7. Select **Status** from the Column to Filter list.
8. In the **Only include rows where** section, select **equals** from the left menu and enter **1** in the right text box.
This returns open defects.
9. Click **Next**.
The Query Wizard – Sort Order dialog box opens.

10. Select **DefectNum** from the Sort by menu.

11. Click **Next**.

The Query Wizard – Finish dialog box opens.

12. Click **Finish**.

The Import Data dialog box opens.

13. Click **OK**.

The worksheet is populated with the Defect Number, Summary, and Status for all open defects.

Crystal Reports example

This example builds a report that returns the number of defects created by date.

1. Start Crystal Reports.

2. Choose **Database > Log On Server**.

The Log On Server dialog box opens.

3. Select the TestTrack data source you want to link to.

For this example select **ODBC - TestTrack ODBC Datasource** and click **OK**.

4. A message opens stating that the log on was successful. Click **OK**.

5. Choose **File > New> Graph Expert**.

The Create Report Expert dialog box opens with the Tables tab selected.

6. Click the **SQL/ODBC** button.

The Choose SQL Table dialog box opens.

7. Select **DEFECTS** from the SQL Tables list and click **Add**.

8. Click **Done** when finished.

9. Click **Next**.

The Fields tab opens.

10. Select **IDRECORD** and **DATEENTER** from the Database Fields list and click **Add**.

11. Click **Next**.

The Sort tab opens.

12. Select **DATEENTER** from the Reports list and click **Add**.

13. Select **For each week** from the Break menu.

14. Click **Next**.

The Total tab opens.

15. Select **Count** from the menu located under the Total Fields list and click **Next**.

The TopN tab opens.

16. Click **Next** to skip the TopN tab.

The Graph tab opens.

17. Click the **Line graph** button.

18. Click **Next**.

The Select tab opens.

19. Select **DATEENTER** from the Report list box and click **Next**.

The Style tab opens.

20. Enter a report title. For example: Number of Defects by Date Entered.

21. Click **Preview Report**.

The report opens in preview mode. You can change the report layout, save the report, or print the report.

