Datacolor TOOLS™
Technical Reference Guide

Datacolor TOOLS™ Technical Reference Guide (Rev. 3, January, 2008)

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TOOLMAN32.INI

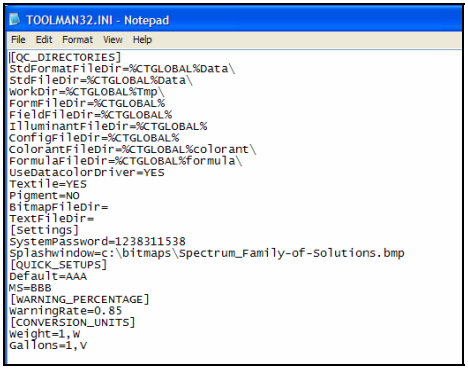
Overview

The main configuration file for Datacolor TOOLS is TOOMAN 32.INI. This file is created during installation and controls various system functions. If you plan to customize the program appearance and/or functions, you may need to edit TOOLMAN32.INI. This file is located in the TOOLS Folder:

C:\Documents and Settings\All Users\Application Data\Datacolor\Tools

NOTE
See also Datacolor TOOLS User's Guide, Appendix, Data File Locations to determine which subfolder contains the TOOLMAN32.INI to be edited.

This file can be opened and edited using a text editor program such as Notepad. Below is an example of this file:



TOOLMAN32.INI Fields

FIELD	COMMENTS
[QC_DIRECTORIES]	
StdFormatFileDir=%CTGLOBAL%Data\	
StdFileDir=%CTGLOBAL%Data\	
WorkDir=%CTGLOBAL%Tmp\	
FormFileDir=%CTGLOBAL%	
FieldFileDir=%CTGLOBAL%	
IlluminantFileDir=%CTGLOBAL%	
ConfigFileDir=%CTGLOBAL%	
ColorantFileDir=%CTGLOBAL%colorant\	
FormulaFileDir=%CTGLOBAL%formula\	
UseDatacolorDriver=YES	Yes=uses standard instrument drivers
Textile=YES	Tools is using Textile db. ***This entry should only be edited under the direction of a Datacolor Applications Specialist.***
Pigment=NO	Toolsis using Pigment db. ***This entry should only be edited under the direction of a Datacolor Applications Specialist.***
BitmapFileDir=	Location of bitmap files for any logos on form files
TextFileDir=	Location of TXT files created from Export function, or File Forms.
[Settings]	
SystemPassword=1238311538	
Splashwindow=c:\bitmaps\Spectrum_Family-of-Solutions.bmp	This line can be added to display a bitmap file before Tools startup
[QUICK_SETUPS]	
Default=AAA	
MS=BBB	
[WARNING_PERCENTAGE]	
WarningRate=0.85	Warning rate can be changed for pass/fail
[CONVERSION_UNITS]	Setting not used
Weight=1,W	
Gallons=1,V	

Editing TOOLMAN32.INI

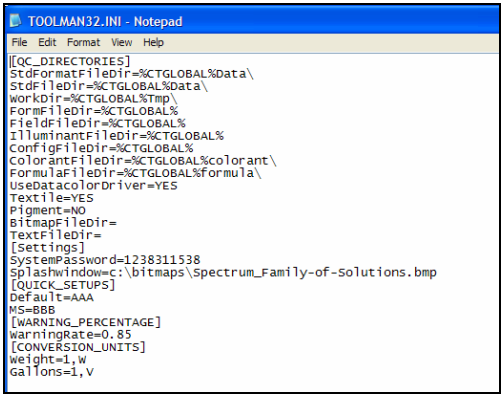
This file can be viewed and edited using a text editor such as Notepad. There are several headings in this file enclosed in brackets [ ], that include configurations you may need to customize. Changes to the following sections of TOOLMAN32.INI are discussed in this section:

- QC Directories
- Settings
- Warning Percentage
- Conversion Units

QC Directories

This section includes file locations for the program. The default file locations may need to be reconfigured for networked or terminal server systems.

```
[QC_DIRECTORIES]
StdFormatFileDir=%CTGLOBAL%Data\
StdFileDir=%CTGLOBAL%Data\
WorkDir=%CTGLOBAL%Tmp\
FormFileDir=%CTGLOBAL%
FieldFileDir=%CTGLOBAL%
IlluminantFileDir=%CTGLOBAL%
ConfigFileDir=%CTGLOBAL%
ColorantFileDir=%CTGLOBAL%colorant\
FormulaFileDir=%CTGLOBAL%formula\
```



Settings

The Settings section includes password information, and an entry that can be edited to display a customized splash screen at startup. The default entry for the Splash Window in TOOLMAN 32.INI is the following:

```
[Settings]
SplashWindow=
SystemPassword=1238311538
```

- **SplashWindow.** Edit this entry to display a specific bitmap. Below is the command to enter:

  SplashWindow=copyright.bmp (Insert name of bitmap to be displayed)

- **System Password.** This is encrypted and should not be changed.

Conversion Units

These are not used in the current version of Datacolor TOOLS.

```
[CONVERSION_UNITS]
Weight=1,W
Gallons=1,V
```

Warning Percentage

This is the tolerance used to trigger a “Warning” message for pass/fail evaluations.

```
WarningRate=0.75
```

Retrieval Speed

The time it takes to retrieve data from the database depends on the number of times that a particular folder is accessed. The first access of a folder will represent the slowest time to display. Subsequent access will be much faster since the data is cached when the folder is accessed.

Data File Locations for Terminal Server Configurations

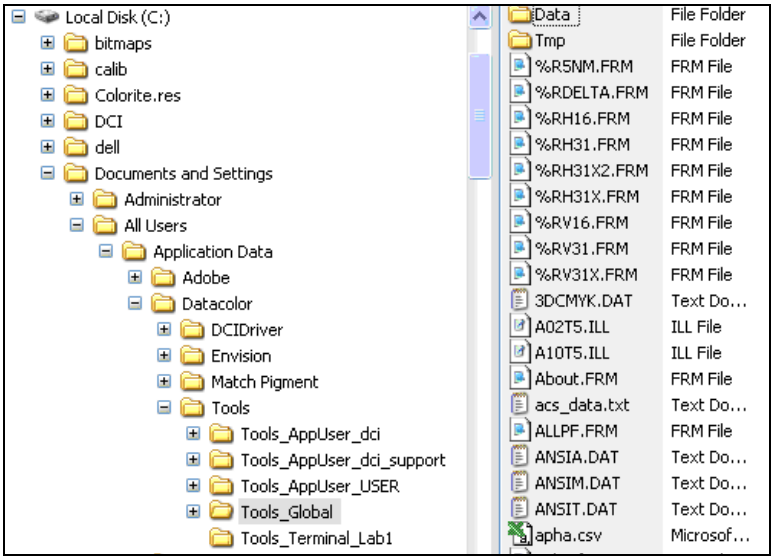
Overview

Datacolor TOOLS has been designed to work in a Terminal Server environment, and the files have been split into 3 categories, “global”, “per terminal” and “per user”.

Global Data Directory

The Global Data Directory contains files which are not dependent on the machine, or user. A list of the directory structure is shown below. It contains files which are common to all users and all machines, Examples of global data files include the User.FLD and CTMAIL.FLD files.

The exact directory location is dependent on the operating system.

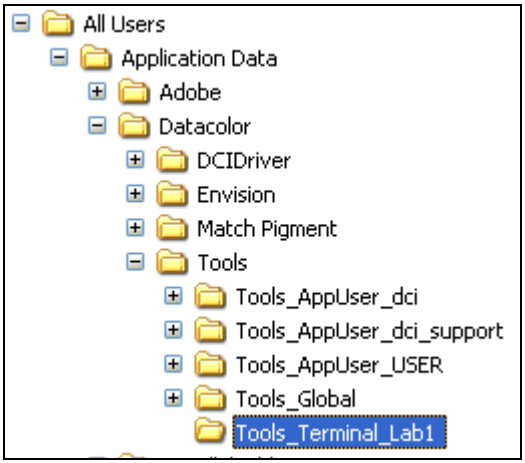


Terminal Data Directory

The Terminal data directory contains files which are dependent on the machine, but not the user. A list of the directory structure is shown below. It contains files which are common to all users on that machine. One example of a terminal specific file is colordata.ini, which communicates with the Datacolor ENVISION program.

- The exact directory location is dependent on the operating system.

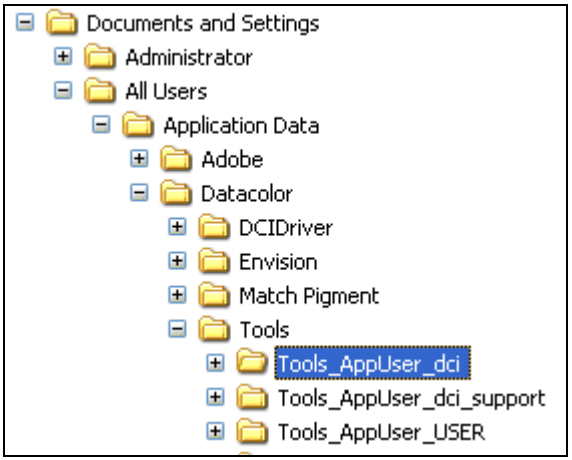
- The name of the computer is used to label the Tools_Terminal directory.



App User Data Directory

The App User Data Directory contains files which are dependent on the user. A list of the directory structure is shown below. It contains files for individual users, which can include forms and configuration files that can be customized for individual users.

- The exact directory location is dependent on the operating system.
- The name of the <APP_User> is used to label the Tools_AppUser directory.



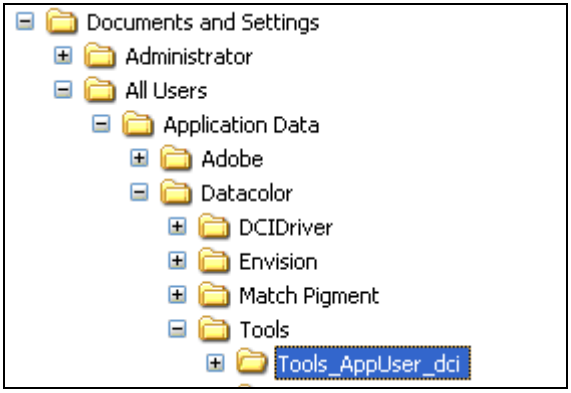
Per User Configuration

Datacolor TOOLS provides the capability to modify multiple user configurations on a single system. This allows users have individual forms and/or configuration settings that are based on Datacolor TOOLS application login user. This is done by modifying INI files to direct the computer to the correct file.

Example 1:

The program has the following customizations:

- Customized forms
- Customized program configuration
- Customized location of the working directory for a specific user
- **File Modified**: **Toolman32.ini** located in Datacolor/TOOLS folder, <App User Data > directory. The name of the subfolder is based on the login name used. For example, if you login using dci, the name of the folder is dci:



It includes a location for the Form File, Config File and Work Directory to be used. Below is the file Toolman32.ini file modification:

```
[QC_DIRECTORIES]
FormFileDir=%CTPERUSER%
ConfigFileDir=%CTPERUSER%
WorkDir=%CTPERUSER%tmp\
```

Example 2:

The program has the following customizations:

- User to work on a Local Area Network.
- **File Modified:** Toolman32.ini in Datacolor TOOLS <App User Data> directory for Datacolor TOOLS login user. Below is the modification to the file:

```
[QC_DIRECTORIES]
FormFileDir=G:\ServerFile\DCTools\FormFile\
ConfigFileDir= G:\ServerFile\DCTools\
WorkDir=G:\ServerFile\DCTools\
```

Example 3:

- Grant limited editing permission to the user for Datacolor MATCH^{PIGMENT} Navigator.
- **File Modified:** CC_USER.ini found in Datacolor_Match Pigment_<App User Data> directory:[DCNavigator]


```
AutoMinimize=TRUE
MinimizeToTray=TRUE
StartMinimized=TRUE
SMMaximized=TRUE
FCMaximized=TRUE
NewFolder=TRUE
Cut=FALSE
Copy=TRUE
Paste=TRUE
Delete=FALSE
Rename=FALSE
DragAndDrop=FALSE
DialogsAllowEdit=TRUE
[Diagnostics]
Enabled=TRUE
Level=1
OpenMode=1
```

N O T E S

Database Backup: MATCH^{PIGMENT} & TOOLS

Overview

Both Datacolor TOOLS and Datacolor MATCH^{PIGMENT} use the Sybase Adaptive Server database management system. All the information in a Datacolor Tools system is stored in a single Adaptive Server Anywhere database file *Color.Db.* In addition to the database file, Adaptive Server Anywhere uses another file when it is running a database. This file is the transaction log, Color.db, and contains a record of all the operations performed on the database. Insertions, updates, deletions, commit, rollbacks, and database schema changes are all logged. The transaction log is a key component for backup and recovery. If the database file is damaged, you can recreate your database from a backup copy along with the transaction log. The section documents the method that can be used to back up the database "Color.Db".


NOTE
The database file, Color.db, can be copied from one machine to another.

Backups can be categorized in several ways:

- **Full backup and incremental backup**. A **full backup** is a backup of both the database file and of the transaction log. An **incremental backup** is a backup of the transaction log only. Typically, full backups are interspersed with several incremental backups.

- **Online and offline backup**. Backing up a running database provides a snapshot of a consistent database, even though the database is being modified by other users. An offline backup consists simply of copying the files. You should only carry out an offline backup when the database is not running, and when the database server was shut down properly

Offline Full Backup

The database can be backed up by copying the database file “Color.Db” and the transaction log “Color.Log”. The database can be copied only when the database is shut down. When a database is shut down, the database file holds a complete and current copy of all the data in the database.

To make an Offline Full Backup of Color.Db and Color.Log:

1. Close all Datacolor MATCH^{PIGMENT} program modules. In the Data Navigator, click **File Menu, Exit, Log Off**. This shuts down the database server.

NOTE
When running the database server on a network using a Windows service to start the network server, you need to shut down the server to perform a manual backup. In this case, it would be better to use either the automated event backup or use the backup utility to perform an online backup.

2. Copy the file **Color.Db** and **Color.Log** from the Datacolor MATCH^{PIGMENT} database directory to your backup directory. Default location for these files is C:\Program Files\Datacolor\Database.
3. Delete the current transaction log, “Color.Log,” in the Datacolor MATCH^{PIGMENT} database directory. When you restart Datacolor MATCH^{PIGMENT}, a new Color.Log will be created that will be much smaller in size. All new transactions will be saved in this new transaction log.

Online Full Backup

Online backups can be made four different ways.

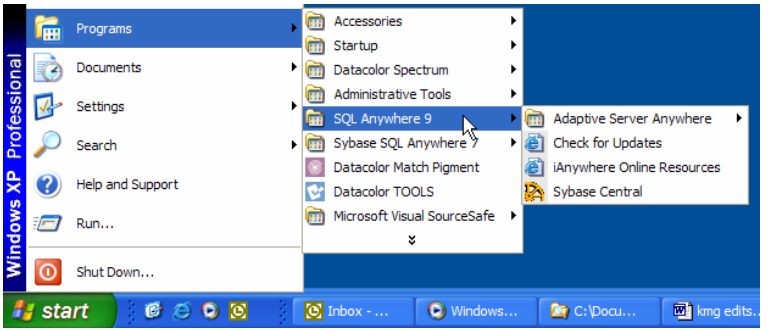
- Create a database “event” and automate the backup procedure.
- Use Sybase Central and the Backup Database utility wizard.
- Use the command line utility *dbbackup*.
- Use SQL to perform a backup operation.

The easiest method is the first choice for creating a database event and automating the backup procedure. Below are detailed instructions.

Online Backups Using an Event

NOTE
This is an online backup procedure so the database does not need to be shut down.

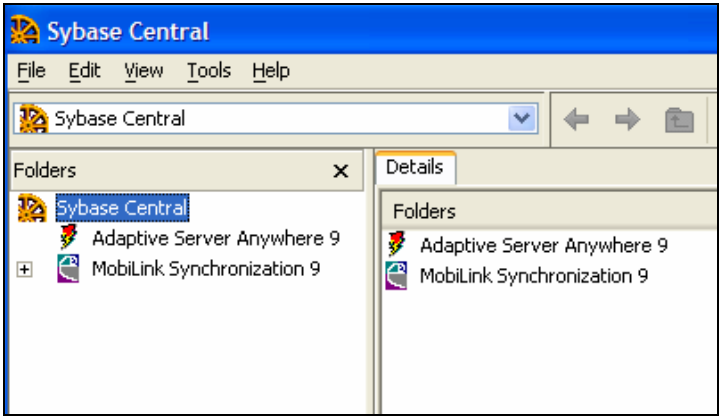
1. **Start Sybase Central**. From the Start menu, select **Program Files, Sybase SQL Anywhere 9, Sybase Central**.



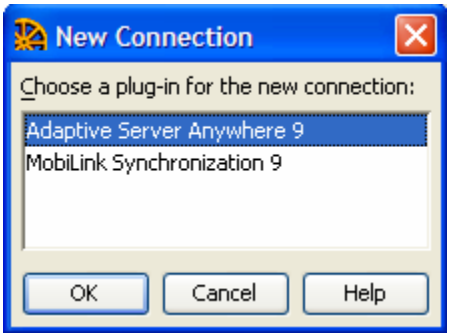
~OR~

Run the program from "**C:\Program Files\Sybase\Shared\Sybase Central 4.0\java\scjview.exe**".

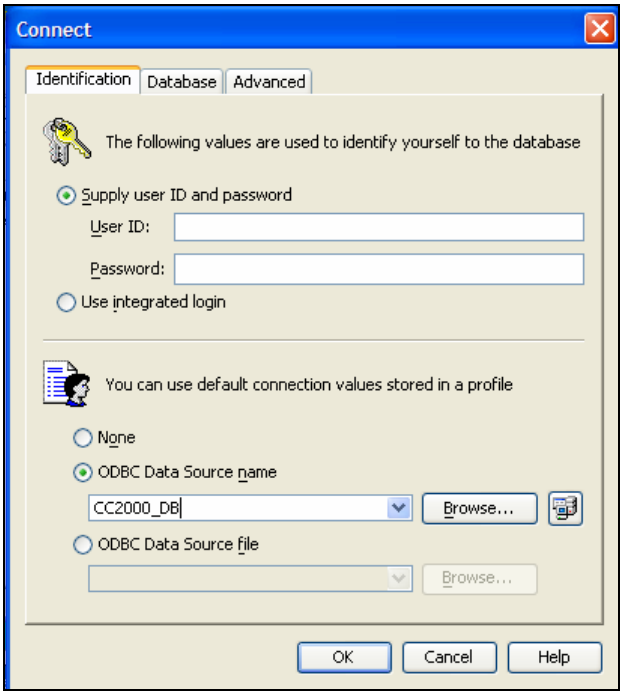
The window below displays:



2. To connect to the database, from the menu bar, select **Tools, Connect**.



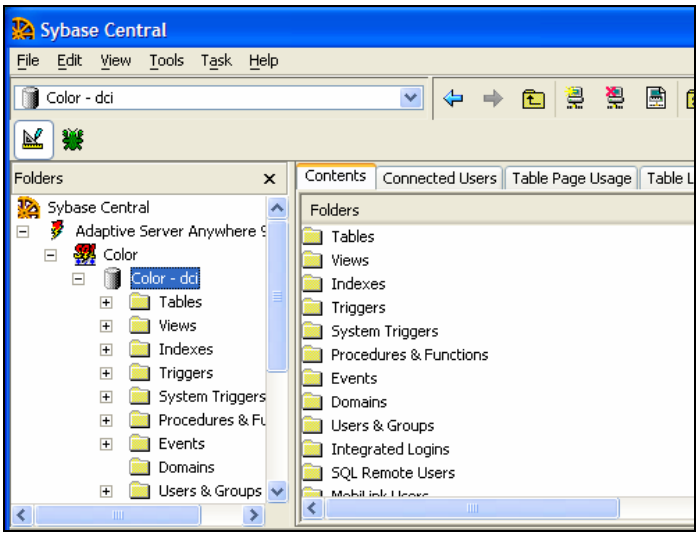
3. **Plug-in.** Select **Adaptive Server Anywhere 9**.
4. Click **OK** to continue. The Connect dialog displays.



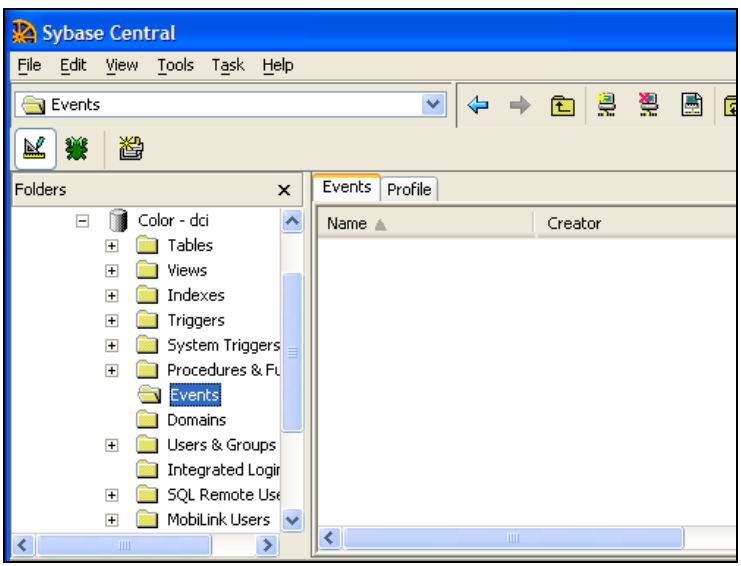
4. Select the radio button **ODBC DATA Source Name.**

5. Select the ODBC connection **CC2000_DB**. If this entry is not displayed, click the **Browse** button and select **CC2000_DB** from the connections available.

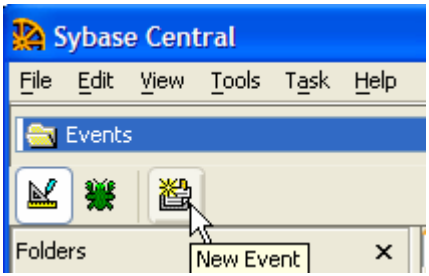
   When the connection is successful, the window below is displayed. In the left window pane, you should see the connection name **COLOR** with the SQL icon.



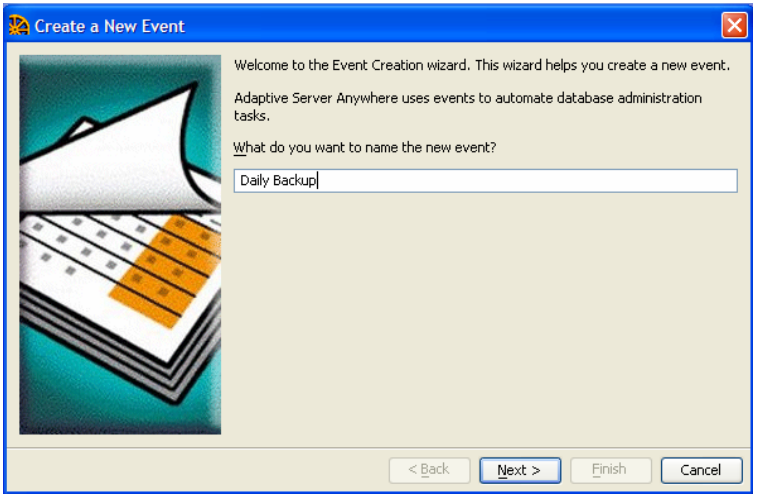
6. Double-click on the *Events* folder. A new icon, *New Events*, will be added to the toolbar on the left:



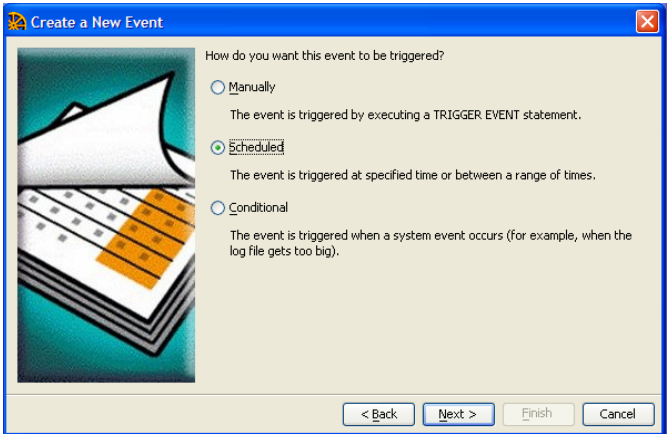
7. Click on the **New Event** icon.



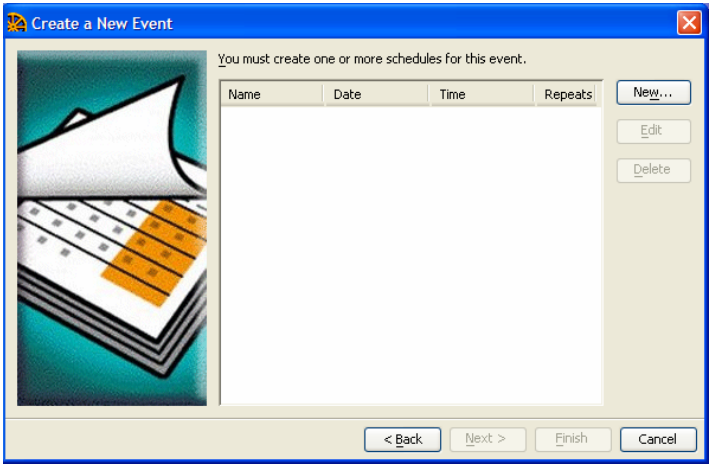
The New Event wizard opens.



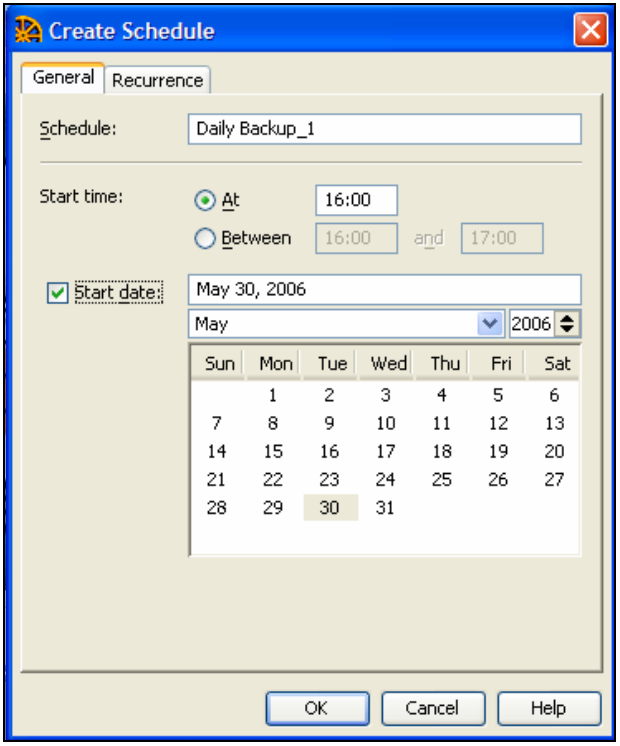
8. Enter a name for this event. In this example, we will use *Daily Backup*. Click the **Next** button to continue.



9. Select **Scheduled** for the type of event. Click **Next**.



10. Click on the **New** button to add an event schedule.

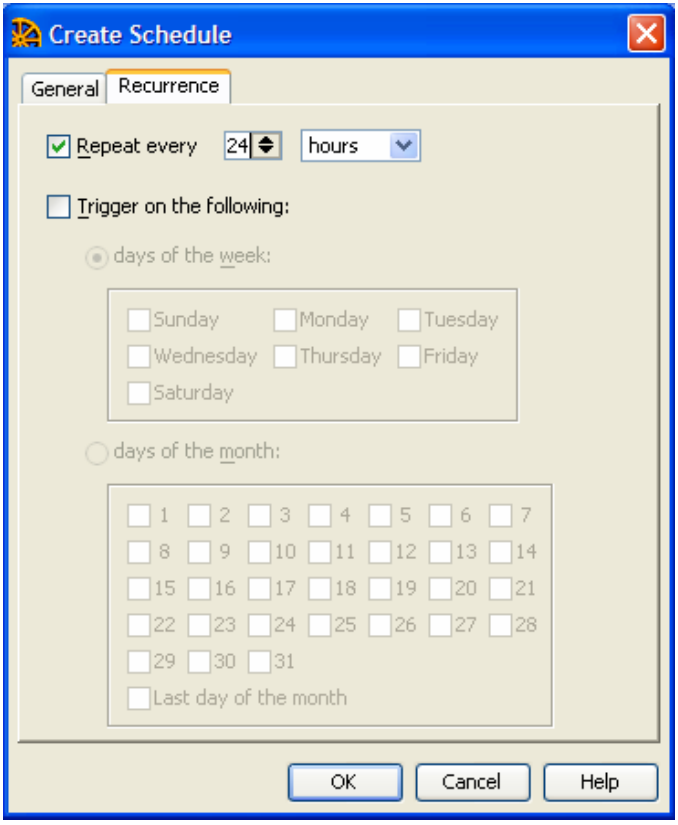


11. **General information**. Enter the name, start date and start time.

   – The schedule name can be the same as the event name *Daily Backup*.

   – You can start the event at a specific time or within a time range. In this example, it is set to start at 16:00 hrs on May 30, 2006.

12. Click the **Recurrence** tab to set the frequency of the event.

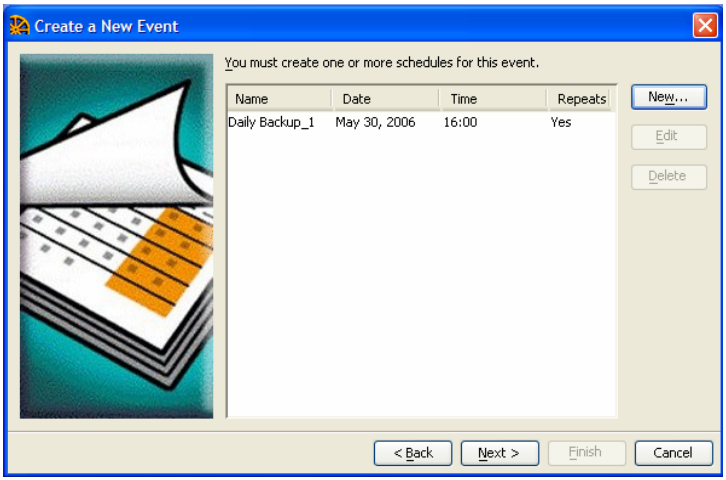


   – Check **Repeat every**.

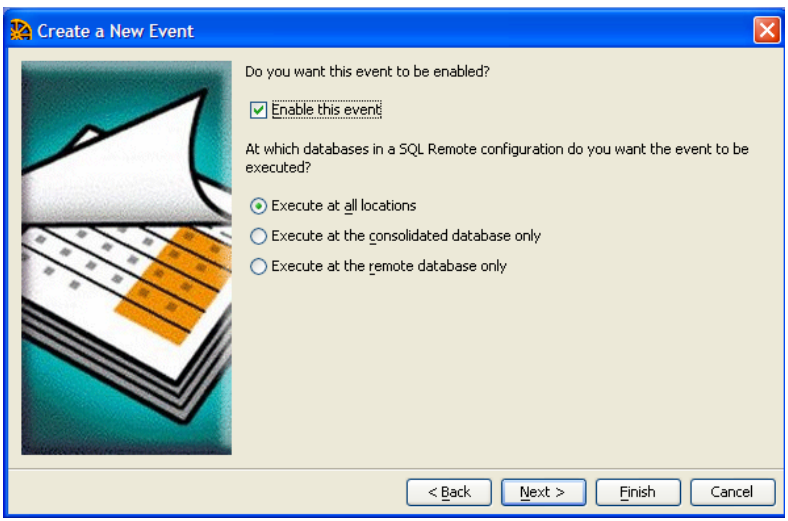
   – Enter **24**.

   – Select **Hours** as the interval.

– Click **OK**. The window below is displayed:



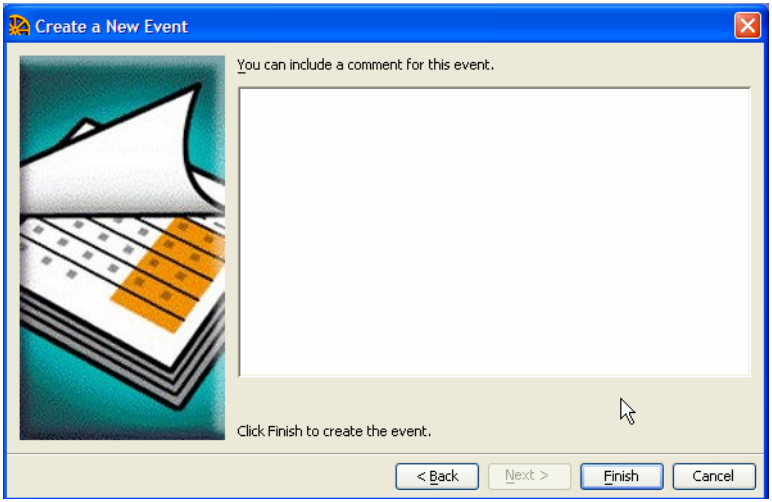
13. Click **Next**.



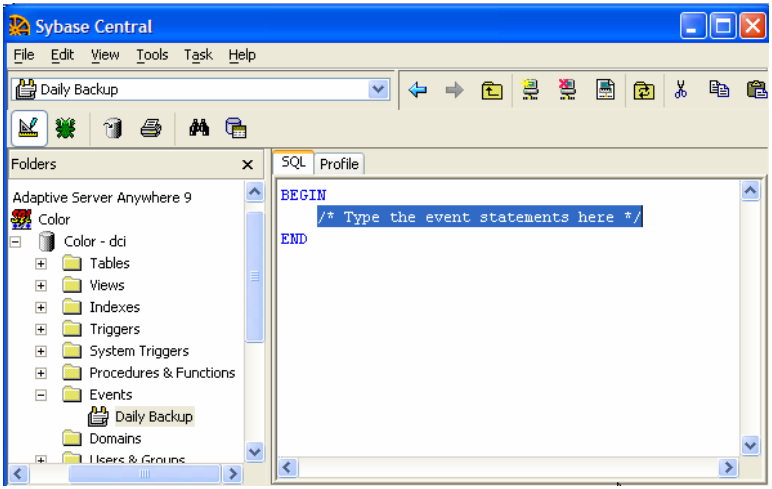
– **Enable the event**. Place a check in the box to activate the scheduled event.

– **Location of event.** Click on the radio button to direct the system regarding where the event should be executed.

14. Click **Nex**t. The window below displays. You can enter a comment for the new event



15. Click **Finish** to complete the event. The wizard closes, and the Sybase Central window is updated:



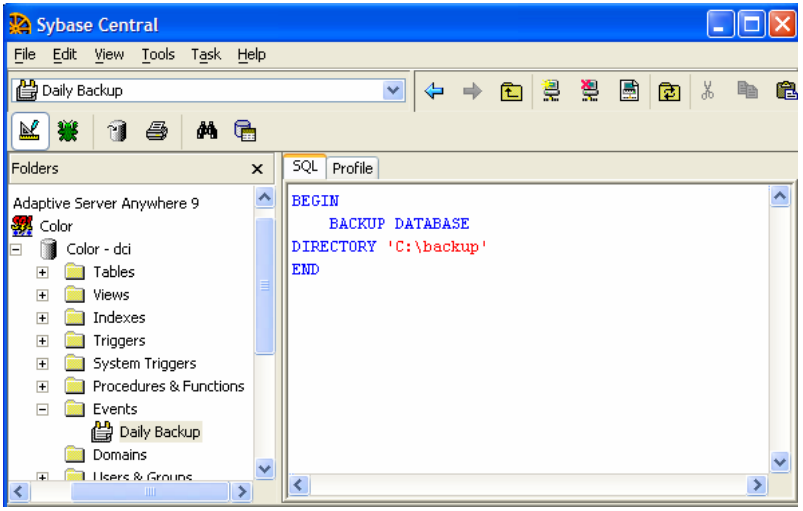
16. In the right window pane you must the SQL code that will be executed when the event fires. These are the actual backup commands. Between the BEGIN and END keywords, enter the following from the keyboard:

```
BACKUP DATABASE
DIRECTORY 'c:\backup'.
```

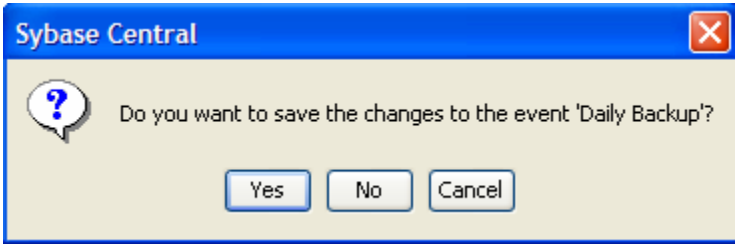
NOTE

See also Event Handler Backup Options in this section for alternate commands that can be inserted.

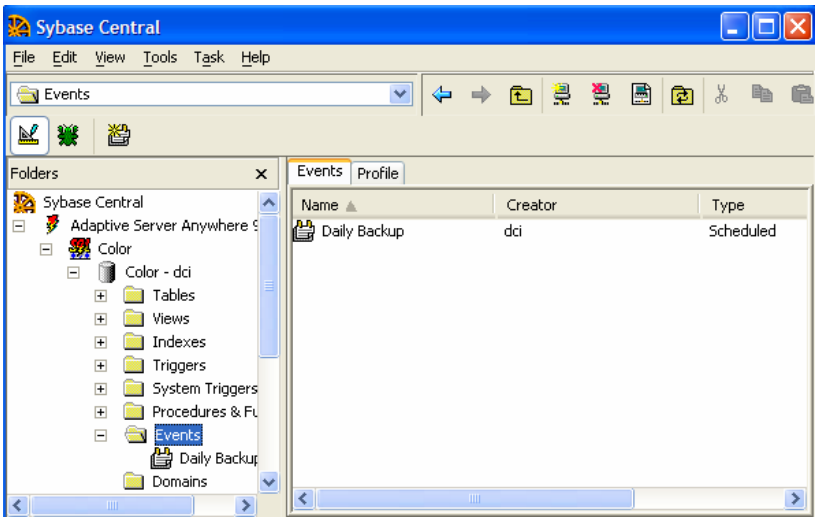
You must enter the actual location of the backup directory path in single quotes following the DIRECTORY keyword. Below is an example:



17. Click anywhere in the left window pane, or click the **X** to close the Sybase Central window. The dialog below is displayed:



18. Click **Yes.** The Sybase Central window updates to display the event created:



19. Close The Sybase Central window.

Event Handler Backup Options

The event handler can be configured in different ways depending on the backup requirements. Below are the most common options:

- **Back Up Database and Transaction Log**. This leaves the original transaction log untouched.

  ```
  BACKUP DATABASE
  DIRECTORY directory_name
  ```

  This will only make a backup of the database file “COLOR.DB” and the transaction log “COLOR.LOG”. The original transaction log is not changed. This is how the preceding example was set up. This would be the recommended method to start with.

- **Back Up Database and Transaction Log.** Deleting Original Transaction Log and Creating a New One.

  ```
  BACKUP DATABASE
  DIRECTORY directory_name
  TRANSACTION LOG TRUNCATE
  ```

  This makes a backup of the database file “COLOR.DB” and the transaction log “COLOR.LOG”. This original transaction log “COLOR.LOG” is deleted and a new transaction log “COLOR.LOG” is started. This will save disk space since the transaction log is always reset.

- **Back Up Database and Transaction Log.** Renaming Original Transaction Log and Creating a New One.

  ```
  BACKUP DATABASE
  DIRECTORY directory_name
  TRANSACTION LOG RENAME
  ```

  In addition to making backup copies of the database file “COLOR.DB” and the transaction log “COLOR.LOG”, the transaction log at backup time is renamed to an offline log “YYMMDDnn.log”**,** and a new transaction log “COLOR.LOG” is started, with the same name as the log in use at backup time.

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