TELEX

RADIO DISPATCH PRODUCTS

Remote Database Reviewer Technical Manual

up to and including version 1.000

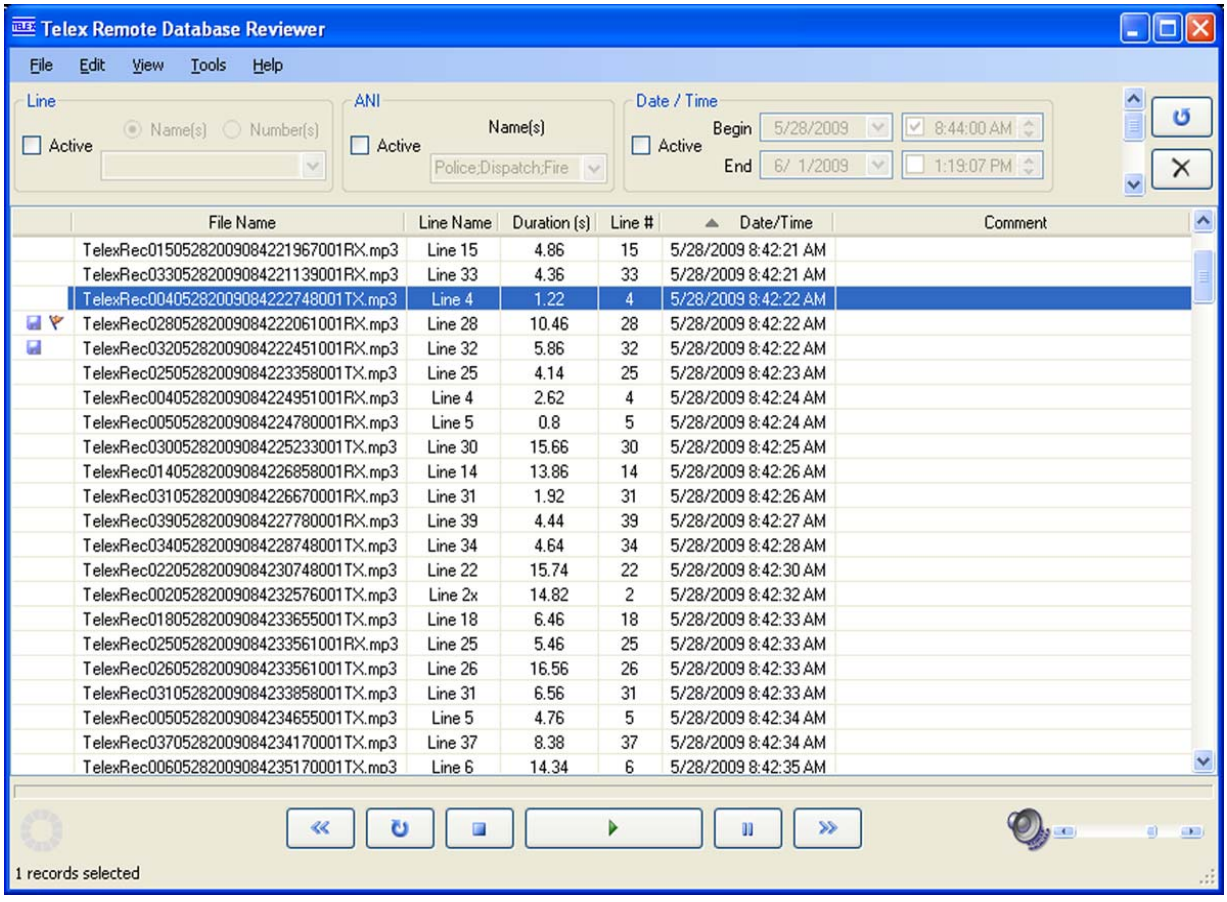

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Table of Contents

Features *9*
Software Requirements *10*
System Requirements *10*
Required Windows Applications *10*
Files Included *10*
Compatibility *10*
Ports *10*
Installation *11*
Step 1 Install Remote Database Reviewer *11*
Step 2 Network Recorder Update *12*
Step 3: Network Recorder: Remote Database Reviewer Connection Setup *12*
Auto Detection Settings Group Box 13
Server Name Field *13*
Server Settings Group Box 13
Enable Remote Database Reviewer Server Check Box *13*
Server IP Field *14*
Port Field *14*
Account List *14*
Credentials Group Box 14
User Field *14*
Password Field *14*
Add New Button *15*
Delete Button *15*
Set Password Button *16*
OK Button *16*
Cancel Button *16*
Apply Button *16*
Step 3 Remote Database Reviewer Connection Setup *16*
Database Control *17*
Status Bar *17*
Queries *17*
Query Button *17*
Filters *18*
Filter Control Box *18*
Filters Shortcut Menu *20*
Line Filter Control 20
Active Check Box 20
Name(s) Radio Button 20
Number(s) Radio Button 20
Line Combo Box 21
ANI Filter Control 21
Active Check Box 21
ANI Combo Box 22
Date/Time Filter Control 22
Active Check Box 22
Begin (Date) Drop Down Menu 22
Begin (Time) Check Box 22
Begin (Time) Spin Box 22
End (Date) Drop Down Menu 22
End (Time) Check Box 23
End (Time) Spin Box 23
Duration Filter Control 23
Minimum Check Box 23
min Spin Box 23
sec Spin Box 24
Maximum Check Box 24
min Spin Box 24
sec Spin Box 24
Frequency Filter Control 24
Active Check Box 24
Frequency Combo Box 25
Flag Filter Control 25
Flag Buttons *25*
Red 25
Blue 25
Yellow 25
Green 25
Record List *26*
Choose Columns Window *28*
Status Column *28*
Available Columns Pane *28*
Visible Columns Pane *28*
Right Arrow Button *28*
Left Arrow Button *28*
Double Right Arrow Button *28*
Double Left Arrow Button *29*

Default Button *29*
OK Button *29*
Records List Shortcut Menu *30*
Record Info Pane *32*
Select All *32*
Clear List Button *33*
Audio Control Panel *33*
Play Previous Button *36*
Loop Button *36*
Stop Button *36*
Play Selected Files Button *36*
Pause Button *36*
Play Next Queued Entry Button *36*
Volume Control Scroll Bar *37*
Comment Window *38*
Comment Pane *38*
Clear Button *38*
Apply Button *38*
Close Button *38*
ANI Alias Table Window *39*
ANI Alias Name Column *39*
ANI Alias # Column *39*
Close Button *39*
Frequency Alias Table Window *40*
Line # Column *40*
Frequency # Column *40*
Name Column *40*
Account Permissions Window *41*
Current Login Field *41*
Account Line Permissions List *41*
Line Number Column *41*
Line Name Column *41*
Refresh Button *41*
Close Button *41*
Export Records Tool Window *42*
Destination Group Box 42
Directory Drop Down Menu *42*
Browse Button *42*
Document Filename Field *42*
Timestamp Check Box *42*
Select Results Group Box 42
Selected Results Radio Button *42*
All Query Results Radio Button *42*
Export Button *43*
Close Button *43*
Export Task Progress Window *44*
File Column *44*
Progress Column *44*
Status Column *44*
Open Folder Button *45*
Close Button *45*
Options Window *46*
OK Button *46*
Cancel Button *46*
Connection Group Box 47
Auto Detection Group Box 47
Auto Detection List *48*
Refresh Button *48*
Set Button *48*
Host IP Field *48*
Host Port Field *48*
Test Button *48*
Login Group Box 48
Username Field *48*
Password Field *48*
Query Options Group Box 49
Database Connection Drop Down Menu *49*
Maximum Entries Returned by Query Field *49*
Audio File Cache Setting Group Box 50
Current Size Spin Box *50*
Max Cache Size Spin Box *50*
View Cached Files Button *50*
Clear Cache Button *50*
Skin Options Group Box 51
Current Skin Field *51*
Choose Skin Button *52*
Default Button *52*
About Telex Remote Database Reviewer *53*
Exit Remote Database Reviewer *53*

List of Figures

FIGURE 1. Remote Database Reviewer Setup Window—Network Recorder 13
FIGURE 2. Records List 18
FIGURE 3. Filter Control Box Visibility 19
FIGURE 4. Filters Shortcut Menu 20
FIGURE 5. Line Filter Control 20
FIGURE 6. ANI Filter Control 21
FIGURE 7. Date/Time Filter Control 22
FIGURE 8. Duration Filter Control 23
FIGURE 9. Frequency Filter Control 24
FIGURE 10. Flag Filter Control 25
FIGURE 11. Column Headings 27
FIGURE 12. Choose Columns Window 28
FIGURE 13. Records List Shortcut Menu 30
FIGURE 14. Set Filter Flyout Menu 30
FIGURE 15. Flag Flyout Menu 31
FIGURE 16. Record Info Pane 32
FIGURE 17. Clear List Button 33
FIGURE 18. Status Icons 34
FIGURE 19. Audio Control Panel 36
FIGURE 20. Volume Control 37
FIGURE 21. Comment Window 38
FIGURE 22. ANI Alias Table Window 39
FIGURE 23. Frequency Alias Table Window 40
FIGURE 24. Account Permissions Window 41
FIGURE 25. Export Records Tool 42
FIGURE 26. Export Task Progress Window 44
FIGURE 27. Exported Files 45
FIGURE 28. Sample XML Report 46
FIGURE 29. Connection Page 47
FIGURE 30. Database Page 49
FIGURE 31. Audio Cache Page 50
FIGURE 32. Skin Page 51
FIGURE 33. Open Skin File Window 52

List of Tables

Table 1. Audio File Status Icon Descriptions *35*

CHAPTER 1

Introduction

The Telex Remote Database Reviewer enables a user to remotely access the Telex Network Recorder database of audio files for playback, and data export to generate a report for portable viewing. The Remote Database Reviewer is able to stream and copy audio files and data from the Network Recorder's archive of recorded audio.

The Remote Database Reviewer and Network Recorder's relationship is as client and server, respectively. The Remote Database Reviewer (client) connects to Network Recorder (server), and a session is created. While the session is active, Remote Database Reviewer is able to perform database queries and request audio from the Network Recorder server. As long as the session is active, the session's user account is also considered active. When Remote Database Reviewer is closed, the session ends, and the user becomes inactive. In order to ensure Network Recorder is able to perform its recording duties as well as hosting audio files for Remote Database Reviewer, Network Recorder allows for only six (6) sessions at a time.

Features

- Connects to Network Recorder remotely through an IP network.
- Allows access to recorded audio files from a remote computer.
- Allows the user to view events from a remote computer.
- Displays user-defined custom views of database query results.
- Improved database query filters for easy searching.
- Exports database query results into a report along with audio files.
- Provides remote access to a Network Recorder's database, which includes recorded audio and events.
- Allows inserting and editing comments on each database record.
- Allows easy access to detailed information on each recorded database record.
- Restricts access to Network Recorder with built-in account security.
- Supports agency/department/user record access limitations per line and per account.

Software Requirements

System Requirements

- Windows XP SP2 or greater

Required Windows Applications

- .NET Framework 2.0 or greater
- Windows Installer 3.1
- MySQL Connector/ODBC 5.1
- Microsoft Visual C++ Redistributable

NOTE: All required applications are automatically installed when the Remote Database Reviewer is installed when executing the setup.exe file.

Files Included

- setup.exe

  RemoteDatabaseReviewerInstaller.msi

  dotnetfx.exe (installs .NET Framework)

  vcredist_x86.exe (installs Microsoft Visual C++ Redistributable)

  mysql-connector-odbc-commercial-5.1.5-win.msi

Compatibility

Remote Database Reviewer is compatible with Network Recorder version 4.300 and later.

Ports

Network Recorder interfaces with Remote Database Reviewer using the following ports:

- User-specified port in the Network Recorder application.
  See “Step 2 Network Recorder Update” on page 12.
- Port number 3306 for MySQL queries.

UDP

- Remote Database Reviewer uses **UDP** (User Datagram Protocol) 7635 for Auto Detection

CHAPTER 2

Install and Configure

Installation

Step 1 Install Remote Database Reviewer

Step 2 Network Recorder Update

Step 3 Remote Database Reviewer Connection Setup

Step 1 Install Remote Database Reviewer

Several Windows applications are required to run Remote Database Reviewer. These file are automatically installed during Remote Database Reviewer Installation.

To **install Remote Database Reviewer and required files**, do the following:

1. Download the Database Reviewer **software zip file**, available at http://www.telex.com/Downloads/.
2. Unzip the **Remote Database Reviewer file**.
3. Double-click **setup.exe**.
4. Follow the **prompts**.
   All files required to run Remote Database Reviewer are installed.

   NOTE: For more information, see “Files Included” on page 10.

Step 2 Network Recorder Update

Network Recorder, version 4.300 or greater, must be installed and configured to be compatible with Remote Database Reviewer.

If a you are currently running a version of Network Recorder earlier than 4.300, you must uninstall the earlier version and install Network Recorder 4.300 or later.

To **uninstall the Network Recorder**, do the following:

1. Click **Start|Settings|Control Panel**.
2. From the Control window, double-click **Add or Remove Programs**.
   The Add or Remove Programs window appears.
3. Select the **Telex Network Recorder** program.
4. Click **Change /Remove**
   The program is removed.

To **install Network Recorder**, do the following:

1. Locate the **latest Network Recorder installation files** at http://www.telex.com/Downloads/.
2. Click the **Network Recorder installation** file.
   The install wizard opens.
3. Follow the **prompts**.
   The Network Recorder is installed.

Step 3: Network Recorder: Remote Database Reviewer Connection Setup

The **Remote Database Reviewer Connection Setup** window, shown in Figure 2, is used to set up the Network Recorder to accept incoming connections from the Remote Database Reviewer.

REFERENCE: Network Recorder Technical Manual (804083).

NAVIGATION: Select **Remote Utilities|Remote DB Reviewer Setup** from the Network Recorder menu bar.

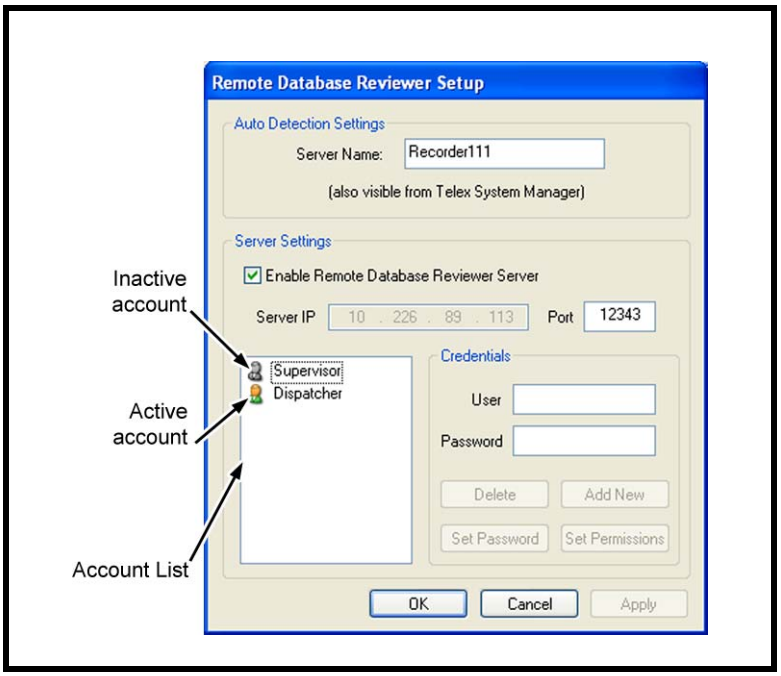


FIGURE 2. Remote Database Reviewer Setup Window—Network Recorder

Auto Detection Settings Group Box

The **Auto Detection Settings** group box contains fields to set up automatic Network Recorder detection. While running, Network Recorder can be detected by Telex System Manager and by Telex Remote Database Reviewer.

Server Name Field

The **Server Name** field is used to specify a name for the Network Recorder installation so the Remote Database Reviewer user can differentiate between multiple Network Recorder programs running on the same network.

NOTE:

- In Remote Database Reviewer this name appears in the Auto Detection list.
  For more information, see “Connection Page” on page 47.
- In Telex System Manager, this name appears in the Device List.

REFERENCE: For more information, see the Telex System Manager Technical Manual (LIT00259000).

Server Settings Group Box

The **Server Settings** group box contains necessary settings to allow Remote Database Reviewer clients to connect to the Network Recorder program.

Enable Remote Database Reviewer Server Check Box

The **Enable Remote Database Reviewer Server** check box indicates the Network Recorder is allowed to respond to incoming connection requests from the Remote Database Reviewer. Otherwise the Network Recorder does not accept incoming requests.

Server IP Field

The **Server IP** field displays the Network Recorder's IP Address. This field is for reference only, and cannot be changed by the user.

Port Field

The **Port** text box is used to control the port number Network Recorder uses to accept connection requests from Remote Database Reviewer.

Account List

The **Account** list displays all active and inactive accounts by username. Each account is marked by an icon that displays if each account is active or inactive. Active accounts have colored user icons next to the account name while inactive accounts have greyed-out icons. The icon color indications update when the account is changed from active to inactive or vice versa.

This list can contain up to *30 users*.

To **select an account**, do the following:

> Click a **record** in the list.

Credentials Group Box

User Field

The **User** field displays the currently selected account's username. When creating a new account, the User field is used to specify the new account's username. If no user is selected, the User field is blank.

Password Field

The **Password** field displays asterisks to indicate a user is currently selected, or is blank to indicate no user is currently selected. The Password field is also used to create a password for a new account.

This field can contain *1 to 16 digits*.

Add New Button

The **Add New** button is used to create a new account.

To **add a new account to Network Recorder**, do the following:

1. In Network Recorder, select **Remote Utilities|Remote DB Reviewer** setup from the menu bar.
   The Remote Database Reviewer Setup window appears.
2. In the username field, enter a unique **username**.
3. In the password field, enter a **password**.
4. Click **Add New User.**
   The username is added to the Account List.
5. Click **OK**.
   The account information changes are saved and the window closes.
   OR
   Click **Apply**.
   The account information changes are saved and the window remains open.
   OR
   Click **Cancel** to discard changes.
   The account changes are discarded and the window closes

Delete Button

The **Delete** button is used to remove any currently selected account from the list.

To **permanently delete an accoun**t, do the following:

1. Select an **existing account** from the account list.
   The account is highlighted.
2. Click **Delete**.
   The account is removed from the list.

   NOTE: The delete key does not delete records, it clears them from the list.
3. Click **OK**.
   The account is permanently deleted and the window closes.
   OR
   Click **Apply**.
   The account is permanently deleted and the window remains open.
   OR
   Click **Cancel** to discard changes.
   The account is not deleted and the window closes.

NOTE: The delete button on the keyboard has the same functionality.

Set Password Button

The **Set Password** button is used to set a new password on the currently selected account.

To **change a password**, do the following:

1. From the Account List select a **username**.
   The account is highlighted and the Credentials group box fields become active.
2. Select the **password** field.
   The password field is cleared.
3. Type a **new password**.
   Asterisks appear.
4. Click **Set Password**.
   The message Password set. appears and the new password in temporarily stored.
5. Click the **OK** button.
   The new password is permanently set and the window closes.
   OR
   Click **Apply**.
   The new password is permanently set and the window remains open.
   OR
   Click **Cancel** to discard the changes.
   The new password is not saved and the window closes. The previous password is remains in effect.

OK Button

The **OK** button is used to permanently accept changes made to any field in the window.

Cancel Button

The **Cancel** button is used to cancel all changes made to any field in the window.

Apply Button

The **Apply** button is used to apply changes before closing the window.

Step 3 Remote Database Reviewer Connection Setup

See “Connection Page” on page 47.

CHAPTER 3

Operation

Database Control

Once successfully connected to the Network Recorder. Remote Database Reviewer performs a database query, and the resulting records display in the records list. Filters can be specified to more easily locate desired results. The Records List can be configured to display a customized view of query records. Once records appear in the Records List, they can be sorted, played, and exported. In addition, each individual record can be commented and flagged for identification.

Status Bar

The **Status Bar** displays messages relevant to the Remote Database Reviewer's last executed command. See Figure 3.

Queries

Queries are sent to a Network Recorder and the results display in the records list.

Query Button

The **Query** button, shown in Figure 3, is one (1) way of accessing a Network Recorder's database to perform a query.

NOTE:

- Alternatively, you can select **Edit|Execute Query** from the menu bar.
  OR
  Press **F5**.
  OR
  After changing a filter's criteria, while a text box has keyboard focus, press **enter**.

- For more information about configuring the maximum number of query results, see “Database Page” on page 49.

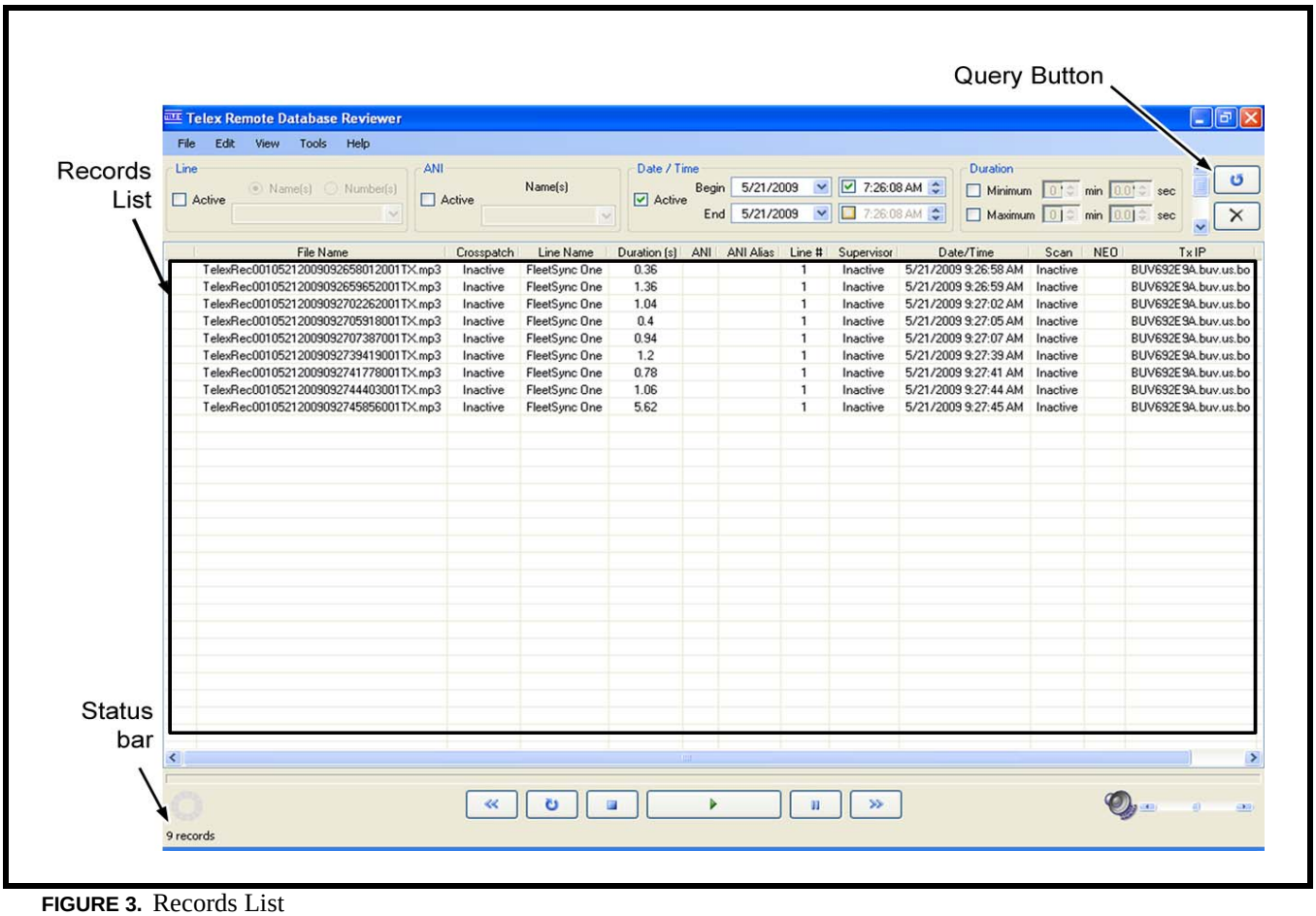


FIGURE 3. Records List

Filters

Filters are used to filter unwanted records from the database results. Adding filters progressively decreases the number of database query results. With filters, you include only the data and audio files you want to focus your attention on.

NOTE: Filters must be both enabled and active to affect the list results. See “Filters Shortcut Menu” on page 20.

Filter Control Box

The **Filter Control** box, shown in Figure 4, contains filter controls used to configure which items are included in the list. Enabled filter controls appear in the Filter Control box.

If a scroll bar appears to the right of the filter box, some of the enabled filters are hidden from view. See Figure 4.

To **enable a filter control**, do the following:

1. From the menu bar, select **View|Filters**.
   The Filters flyout menu appears.
   OR
   Right-click anywhere in the **filter's filter control box**.
   The Filters shortcut menu appears.

   NOTE: For more information, see "Filters Shortcut Menu" on page 20.

2. Select the **filter control** you want to enable.
   Enabled filters have check marks next to them. Enabled filters appear in the Filter Control box.

To **activate a filter control**, do the following:

> Select the filter control's **Active** check box.
The filter is applied when a query is executed.

NOTE: If the filter control's Active check box is not selected, the filter control settings are ignored when executing a query.

To **view hidden filter controls**, do the following:

> Using the scroll bar, **scroll** the list until the filter is visible.
OR
Click **up** or **down arrows.**
OR
Mouseover the **separator** until the cursor changes.

- Click and drag the **separator** until the filter is visible.

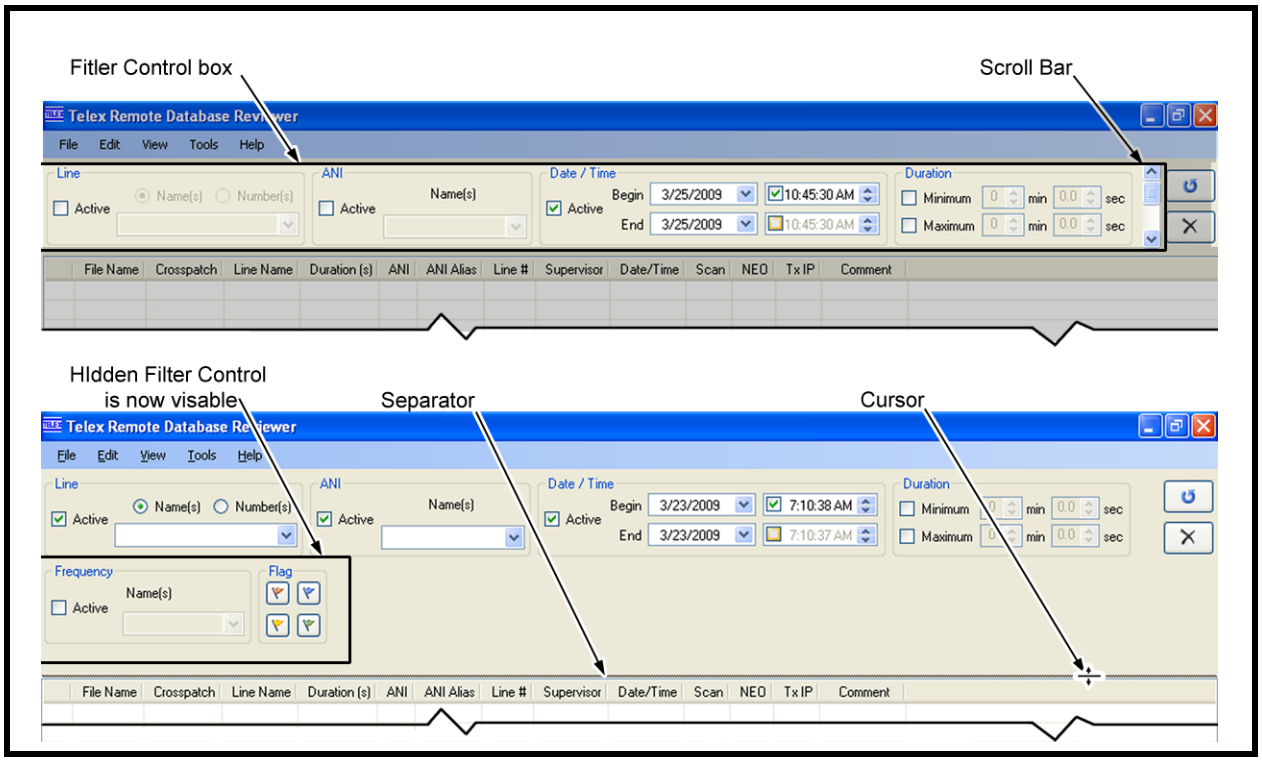


FIGURE 4. Filter Control Box Visibility

Filters Shortcut Menu

The **Filters** shortcut menu, shown in Figure 5, is used to select which filter controls are enabled in the Filter Control Box. Filters with checkmarks are enabled.

Available selections for this field are *Line, ANI, Date/Time, Duration, Frequency,* and *Flag.*

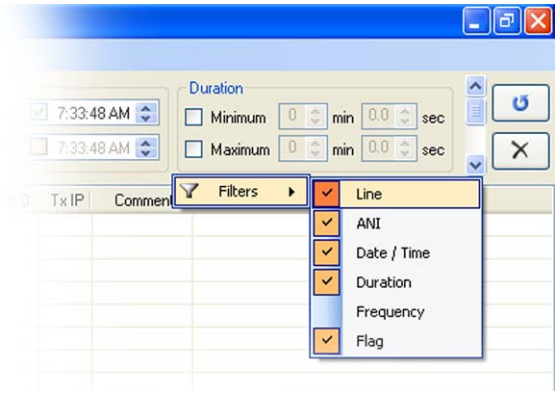


FIGURE 5. Filters Shortcut Menu

Line Filter Control

The **Line** filter control, shown in Figure 6, is used to filter results based on criteria in the Line Name or Line # column.

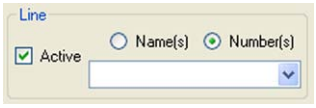


FIGURE 6. Line Filter Control

Active Check Box

The **Active** check box indicates the Line filter is active for any queries performed while the Active check box is selected.

Name(s) Radio Button

The **Name(s)** radio button is used to indicate the criteria entered in the Line drop down menu is a name or list of names.

Number(s) Radio Button

The **Number(s)** radio button indicates the criteria for data entered in the Line drop down menu is a line number or list of line numbers.

Line Combo Box

The **Line** combo box is used to select or manually enter criteria for the filter.

To **filter the records list by name or number**, do the following:

1. Select the **Active** check box.
   The Line filter control is enabled.
2. Select the **Name(s)** radio button.
   The control is set to filter records by line name.
   OR
   Select the **Number(s)** radio button.
   The control is set to filter records by line number.
3. Enter a **name(s)** to filter records.
   The next query filters records by entered name(s).
   OR
   Enter a **number(s)** to filter records.
   The next query filters records by entered number(s).

   NOTE: Once names/numbers are entered, up to 12 of the last entered values can be selected from the list.

   NOTE: If you are filtering on multiple names or numbers, separate entries with a semi-colon (;).

   Example: Multiple names: dispatcher;supervisor;fire;police;ambulance
   Multiple numbers: 1002;1002;1003;1004;1005

ANI Filter Control

The **ANI** (Automatic Number Identification) filter control, shown in Figure 7, is used to filter results based on criteria in the ANI column.

FIGURE 7. ANI Filter Control

Active Check Box

The **Active** check box indicates the ANI filter is active for any queries performed while the Active check box is selected.

ANI Combo Box

The **ANI** combo box is used to select from a list or manually enter ANI criteria.

To **filter the records list by ANI**, do the following:

1. In the ANI filter control, select **Active**.
   The ANI filter control is enabled.
2. Enter **ANI(s)** to filter records.
   The next query filters records by ANIs entered.

NOTE:

- Once ANIs are entered, up to 12 of the last entered ANIs can be selected from the list.
- The ANI Alias table can also be used to create filters. See "ANI Alias Table Window" on page 39.
- If you are filtering records for multiple ANI names, separate the entries with a semi-colon (;).

Example: Multiple ANI names: dispatcher;supervisor;fire;police;dispatcher

Date/Time Filter Control

The **Date/Time Filter Control**, shown in Figure 8, is used to filter results based on criteria in the Date/Time column.

FIGURE 8. Date/Time Filter Control

Active Check Box

The **Active** check box indicates the Date/Time filter is active for any queries performed while the Active check box is selected.

Begin (Date) Drop Down Menu

The **Begin (Date)** drop down menu is used to specify a beginning date for the query

Begin (Time) Check Box

The **Begin (Time)** check box indicates the query filters by the time specified in the Begin (Time) spin box.

Begin (Time) Spin Box

The **Begin (Time)** spin box is used to specify a beginning time for the query.

End (Date) Drop Down Menu

The **End (Date)** drop down menu is used to specify an ending date for the query.

End (Time) Check Box

The **End (Time)** check box indicates the query filters by the time specified in the End (Time) spin box.

End (Time) Spin Box

The **End (Time)** spin box is used to specify an end time for the query.

To **filter the records list by date**, do the following:

1. Clear the **Begin (Time)** check box.
2. Clear the **End (Time)** check box.
3. Select the **Active** check box.
4. From the Begin (Date) drop down menu, select a **begin date** to filter records.
5. From the End (Date) drop down menu, select an **end date** to filter records.
6. Click **Execute Query**.
   The display results are based on dates entered.

To **filter the records list by date and time**, do the following:

1. In the Date/Time filter control, select the **Active** check box.
2. From the Begin (Date) drop down menu, select a **begin date** to filter records.
3. From the End (Date) drop down menu, select an **end date** to filter records.
4. Select the **Begin (Time)** check box, to indicate the begin time is used to filter records.
5. From the Begin (Time) combo box, select a **begin time** to filter records.
6. Select the **End (Time)** check box, to indicate the end time is used to filter records.
7. From the End (Date) drop down menu, select an **end time** to filter records.
8. Click **Execute Query**.
   The query results are based on dates and times entered.

Duration Filter Control

The **Duration** filter control, shown in Figure 9, is used to filter results based on criteria in the Duration column. Duration is the length of time a recording lasts.

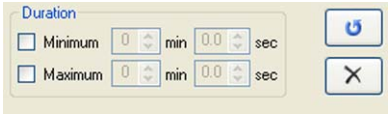


FIGURE 9. Duration Filter Control

Minimum Check Box

The **Minimum** check box indicates the results are filtered based on the minimum (greater than or equal to the value entered) duration specified in the spin box. When selected, the minimum duration filter is active.

min Spin Box

The **min** spin box is used to set the lower limit for the record's length, in minutes, for the filter.

The range for this field is *0* to *99 minutes*.

sec Spin Box

The **sec** spin box is used to set the lower limit for the record's length, in seconds, for the filter.

The range for this field is *0* to *60 seconds*.

Maximum Check Box

The **Maximum** check box indicates the results are filtered based on the maximum (less than or equal to the value entered) duration specified spin box. When selected, the maximum duration filter is active.

min Spin Box

The **min** spin box is used to set the upper limit for the record's length, in minutes, for the filter.

The range for this field is *0* to *99 minutes*

sec Spin Box

The **sec** spin box is used to set the upper limit for the record's length, in seconds, for the filter.

The range for this field is *0* to *60 seconds*.

To **filter the records list using the duration filter**, do the following:

1. In the Duration filter control, select the **Minimum** check box.
2. In the Duration filter control, select the **Maximum** check box
3. From the Minimum min and sec spin boxes, select a **minimum duration.**
4. From the Maximum min and sec spin boxes, select an **maximum duration**.
5. Click **Execute Query**.
   The query results are based on minimum and maximum duration.

Frequency Filter Control

The **Frequency filter control**, shown in Figure 10, is used to filter results based on criteria in the Frequency column.

NOTE: The Frequency Alias table can also be used to create filters. See "Frequency Alias Table Window" on page 40.

FIGURE 10. Frequency Filter Control

Active Check Box

The **Active** check box indicates the Frequency filter is active for any queries performed while the Active check box is selected.

Frequency Combo Box

The **Frequency** combo box is used to enter frequency names to filter records.

To **filter the records list by frequency name**, do the following:

1. From the Frequency filter control, select the **Active** check box.
   The Frequency filter is enabled.
2. In the combo box, enter a **Frequency** name(s) to filter records.
   The next query filters records by entered Frequency names.

   NOTE:

   - Once frequencies are entered, up to 12 of the last entered frequencies can be selected from the list.
   - If you are filtering on multiple frequencies, separate entries with a semi-colon (;).

Flag Filter Control

The **Flag filter control**, shown in Figure 11, is used to filter results based on Flag color. A depressed flag icon indicates the flag filter is active.

Flag filters are used to define a custom subset of records to filter on. For example, you assign a red flag to a number of records denoting an important recording. Click the red flag icon to retrieve those records. Only records with a red flag appear in the list.

FIGURE 11. Flag Filter Control

Flag Buttons

Red

The **Red Flag Button**, when depressed during a query, indicates only results marked with a red flag appear in the list.

Blue

The **Blue Flag Button**, when depressed during a query, indicates only results marked with a blue flag appear in the list.

Yellow

The **Yellow Flag Button**, when depressed during a query, indicates only results marked with a yellow flag appear in the list.

Green

The **Green Flag Button**, when depressed during a query, indicates only results marked with a green flag appear in the list.

NOTE: When multiple flag colors are specified, each color's result set is added. For example, if the red and blue flags are active, only results marked with red or blue flags appear in the list.

To **filter the records list by flag color**, do the following:

1. In the Flag filter control, select **one or more flag colors**.
2. Click **Execute Query**.
   Results matching the flag color appear.

To **add a flag to one or more entries in the list**, do the following:

1. Select **one or more entries** in the Record list.
2. Right-click the **selected entries**.
   The Record List shortcut menu appears.
3. Mouseover **Flag**.
   The Flag flyout menu appears.
4. Select the desired **Flag** color.
   Each selected entry is marked with the specified flag color.

To **remove a flag on one or more entries in the list**, do the following:

1. Select **one or more entries** with a flag(s) applied.
2. Right-click the **selected entries**.
   The Record List shortcut menu appears.
3. From the menu, mouseover **Flag**.
   The Flag flyout menu appears.
4. Select **None** from the menu.
   The flag(s) are removed.

Record List

The **Record List**, shown in Figure 3, is used to display records contained in the Network Recorder's database, once a query is completed. Each row represents one (1) record. Each record contains up to 18 fields as well as the default Status field always located in the first column on the left. See Figure 12.

The list can contain up to *1000 records*.

The List of Record's appearance can be customized as follows:

To **change the column order**, do the following:

> Click and drag a **column heading** into place.

NOTE: The Status column can not be moved.

To **sort a column**, do the following:

> Click a **column heading**.

If the column heading displays a down arrow, the data is sorted in descending order.

If the column heading displays an up arrow, the data is sorted in ascending order.

Record Selection

To **select multiple records**, do the following:

1. Select the **first record** you want to include.
2. Press the **Shift** key.
3. Select the **last record** in the list you want to include.

To **select multiple non-adjacent records**, do the following:

1. Select a **record** in the list.
2. Press and hold the **Control** key.
3. Select **one** or **more records** to add to the selection.

Column Headings

The column headings indicate the data type represented in each field. The default column headings, *File Name, Crosspatch, Line Name, Duration(s), ANI, ANI Alias, Line#, Supervisor, Date/Time, Scan, NEO, TxIP,* and *Comment,* are shown in Figure 12. Columns can be hidden or displayed by the using the Choose Column window.

Available selections for the column headings are *ANI, ANI Alias, Comment, Crosspatch, Date/Time, Duration, File Name, File Path, Flag, Folder, Frequency, Frequency Name, Line Name, Line Number, NEO, Scan, Status, Supervisor,* and *TxIP.*

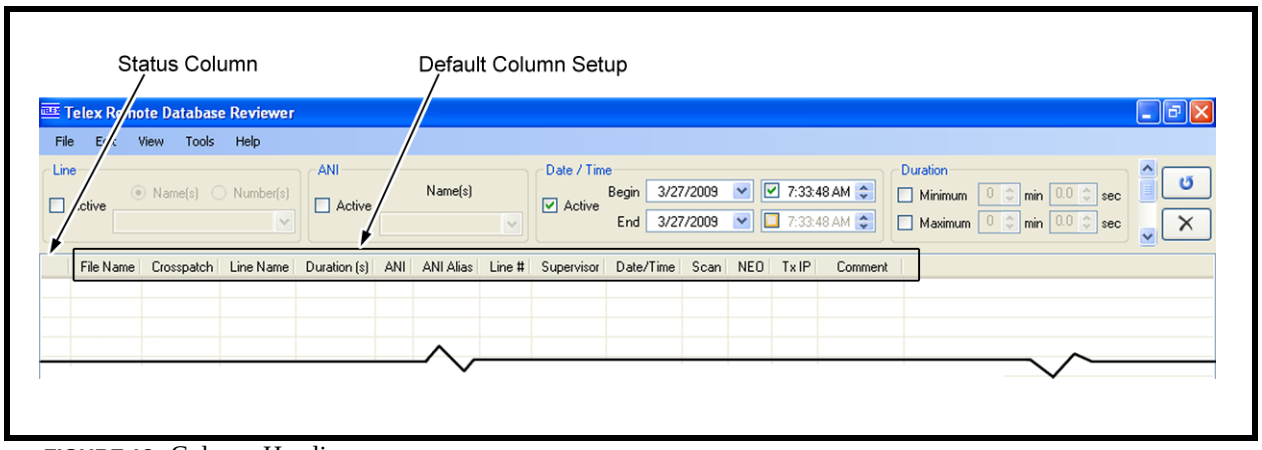


FIGURE 12. Column Headings

Choose Columns Window

The **Choose Columns** window, shown in Figure 13, is used to determine which columns to display in the records list.

Status Column

The **Status** column, shown in Figure 12, displays important information about the audio file's status. For more information, see "Status Icon" on page 34. In addition, the Status Column contains flags set on the corresponding records.

NAVIGATION: Select **View|Columns** from the menu bar.

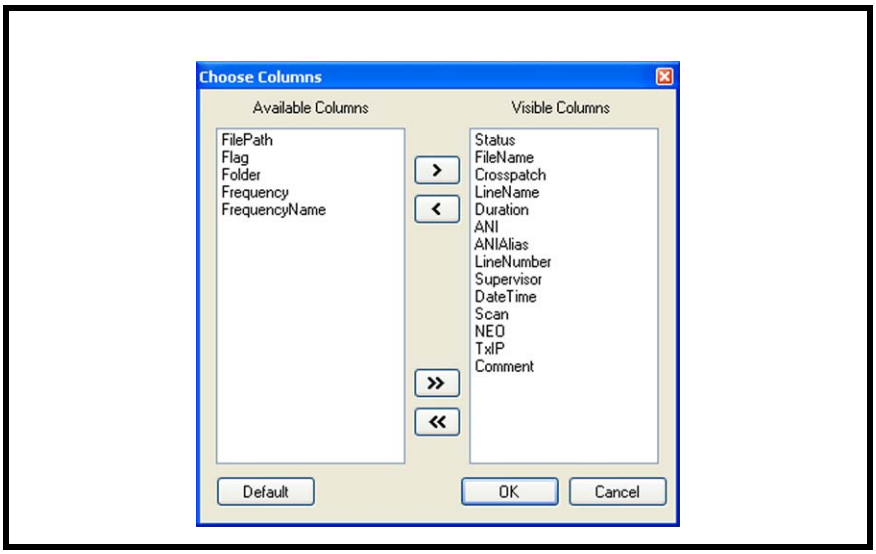


FIGURE 13. Choose Columns Window

Available Columns Pane

The **Available Columns** pane displays the names of columns currently hidden from view in the records list.

Visible Columns Pane

The **Visible Columns** pane displays the names of columns currently visible in the records list.

Right Arrow Button

The **Right Arrow** button, [›], is used to move selected items from the Available columns pane to the Visible column pane.

Left Arrow Button

The **Left Arrow** button, [‹], is used to move selected items from the Visible column pane to the Available column pane.

Double Right Arrow Button

The **Double Right Arrow** button, [»], is used to move all items from the Available column pane to the Visible column pane.

Double Left Arrow Button

The **Double Left Arrow** button, , is used to move all items form the Visible column pane to the Available column pane.

Default Button

The **Default** button is used to configure a standard list of columns. Once selected, the standard list appears in the Visible Columns pane.

OK Button

The **OK** button is used to accept and save the current configuration.

Cancel Button

The **Cancel** button is used to discard changes and close the window.

Records List Shortcut Menu

The **Records List** shortcut menu, shown in Figure 14, is used to access operations specific to the selected item(s) in the records list.

To **access the Records List shortcut menu**, do the following:

> Right-click anywhere in the **records list**.
The shortcut menu appears.

FIGURE 14. Records List Shortcut Menu

Available selections for this menu are:

Play - Plays the selected record.
If multiple records are selected each entry is played back sequentially. If records are already queued, the operation clears the previously queued records before queueing and playing the new selection.

Enqueue - Enqueue adds selected entries to the end of the queue.
If no records are currently playing, the first selected record in the list plays. If records are already playing, the selections are placed at the end of the queue.

Remove - Removes the selected record(s) from the list.

Set Filter - Sets a filter based on the currently selected record'(s) content.
Once a filter is selected from the shortcut menu, the selected filter is set to each entry's value.

Available selections for this field are *Line Name, Line Number, ANI, Begin Date/Time, End Date/Time,* and *Frequency*.

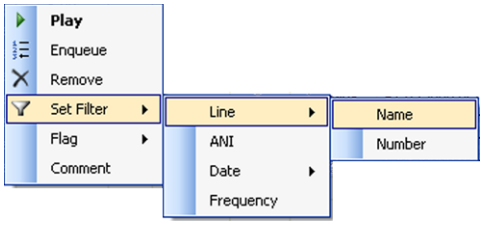


FIGURE 15. Set Filter Flyout Menu

Flag - Flags the record(s) so the user can easily locate the record later.
Once selected, the Flag flyout menu, shown in Figure 16, appears.

Select a flag from the menu to apply the flag to the currently selected record(s).
For more information, see “Flag Filter Control” on page 25.

Available selections for this menu are *None*, *Red*, *Blue*, *Yellow*, and *Green*.

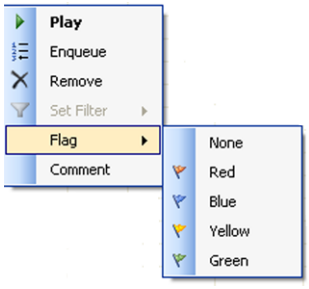


FIGURE 16. Flag Flyout Menu

Comment - Opens the Comment window.
For more information, see the “Comment Window” on page 38.

Record Info Pane

The **Record Info** pane, shown in Figure 17, displays all fields for one (1) selected record at a time. This allows the user to view all parameters for a given record without having to make all columns visible. Information from the first selected record displays in the pane.

NAVIGATION: Select **View|Record Info Pane** from the menu bar.

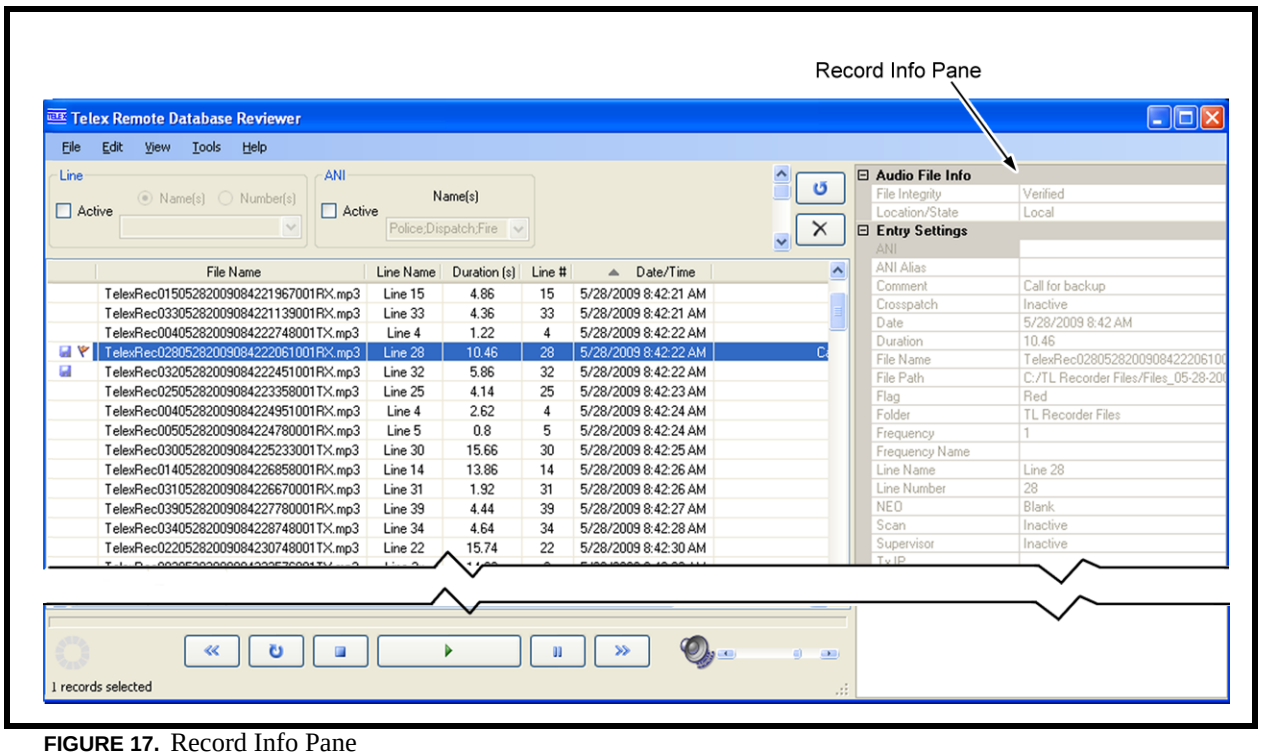


FIGURE 17. Record Info Pane

Select All

The **Select All** operation is used to select all currently visible records in the records list.

NAVIGATION: Select **Edit|Select All** from the menu bar.

NOTE: Alternatively, press **Ctrl+A** on the keyboard.

Clear List Button

The **Clear List** button, shown in Figure 18, is used to clear all records from the list.

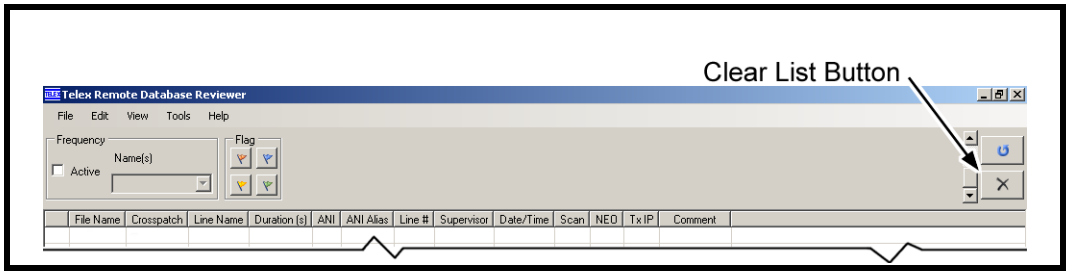


FIGURE 18. Clear List Button

Audio Control Panel

The **Audio Control** panel, shown in Figure 20, is used to play, pause, repeat, or jump to the next or previous record.

Audio Queue

The **Audio Queue** is used to queue and download audio from a Network Recorder's database of records. When several records are played, the first record's audio is streamed and begins to play once sufficient data is buffered. As each record goes through the streaming and download process, the status icon changes to indicate the acquisition state of the audio file. See Table 1 on page 35.

Status Icon

The **Status** icons, shown in Figure 19, indicates the current state of the audio file. See Table 1 for status icon descriptions.

To **play a recording(s)**, do the following:

1. Select **one** or **more records** from the list.
2. Press the **enter** key.
   The recording plays in the order selected.
   OR
   Click **Play Selected Files**.
   The recording plays in the order selected.

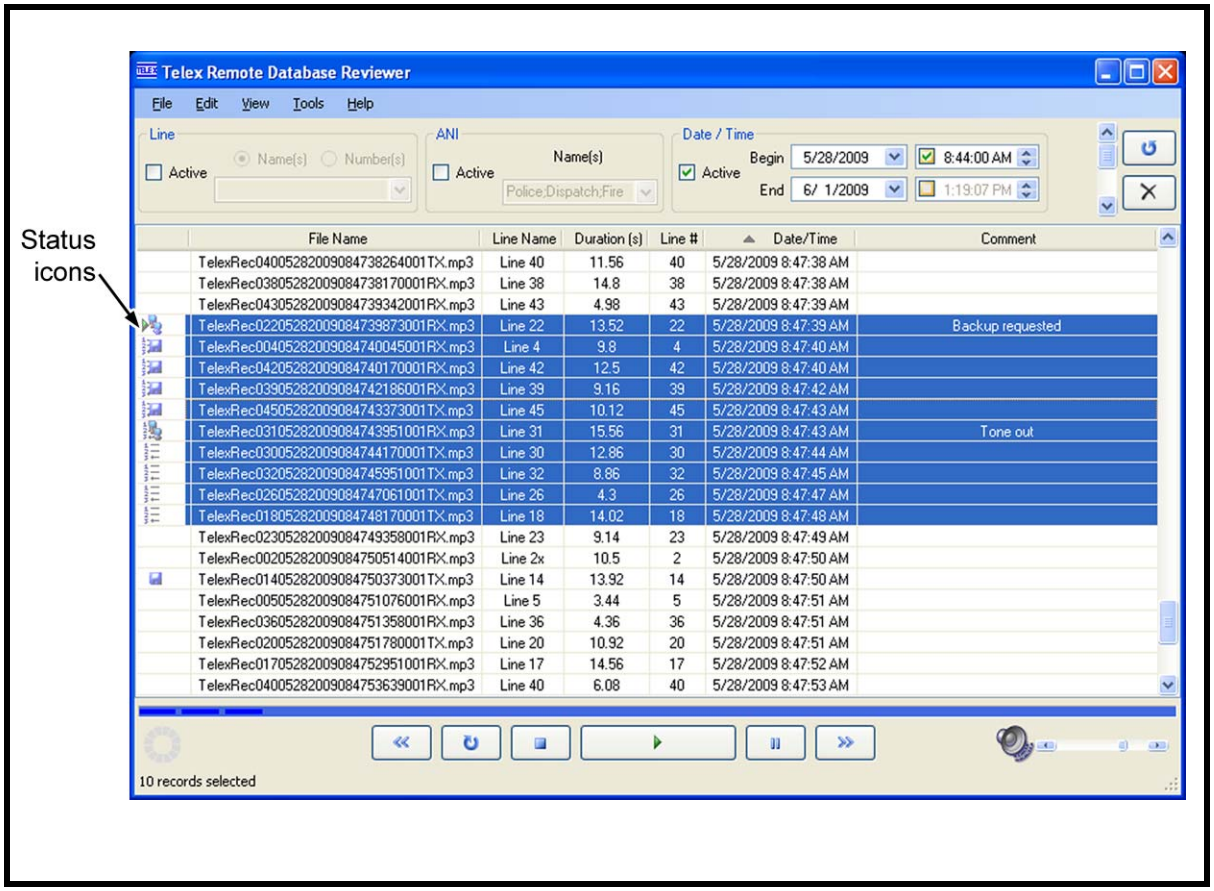


FIGURE 19. Status Icons

TABLE 1. Audio File Status Icon Descriptions

Icon	State	Description
	None	No information. Audio file is not playing and audio file not in cache.
	Queued	Audio is queued to be played. Audio is downloaded or streamed soon.
	Network Queue	Audio is being downloaded or initializing streaming.
	Streaming	Audio is streaming and is currently playing.
	Local Queue	Local audio file exists in cache and is queued to be played.
	Local Play	Local audio file exists in cache and is currently playing.
	Local	Local audio file exists in cache for the corresponding record.
	Paused	Audio playback is paused. Pressing play resumes playing the file.
	Error	An error occurred while attempting to download, stream, or play the file.

Audio Cache Folder

The **Audio Cache** folder, located at C:\Documents and Settings\<current user>\Local Settings\Application Data \Telex\Remote Database Reviewer\<version number>, is used to temporarily store downloaded audio files during a current session. These temporary files are deleted when the Remote Database Reviewer program is closed. When audio is played on cached records, they are played directly from the cache folder.

If multiple audio files are selected, they are queued to play directly from the cache folder in the order they were selected. Once the maximum cache is reached, the oldest files are cleared and a message appears in the status bar.

When a file is retrieved from Network Recorder, the Remote Database Reviewer performs a checksum[1] comparison to confirm the file downloaded successfully and accurately. If the checksum fails to authenticate, an error icon displays in the status column, the audio file is deleted and a notification message appears. For more information, see “Status Icon” on page 34.

Checksum comparison is conducted during the following operations:

- a query is executed and one (1) of the result’s audio file name is contained in the cache
- after download
- local audio file play

1. *The checksum is computed from an arbitrary block of digital data for the purpose of detecting accidental errors that may have been introduced during file transmission or storage.*

If a download is interrupted, the checksum fails to authenticate, the incomplete file is deleted, and the record's status field indicates *None* (the status field is blank).

IMPORTANT: If the audio file's checksum comparison continues to fail, the file may be corrupted on the server. When the file is played again, the audio file is reacquired and its checksum recalculated.

Play Previous Button

The **Play Previous** button is used to play the previously queued record. If no previous queued record exists, the record currently being played is restarted.

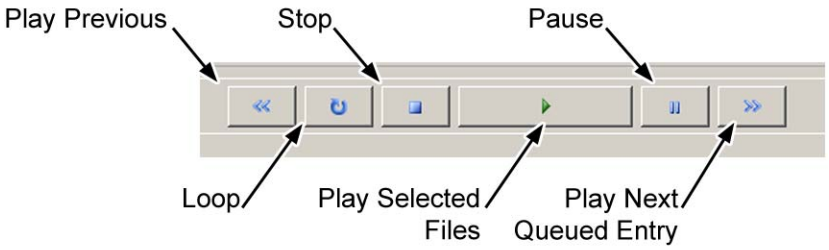


FIGURE 20. Audio Control Panel

Loop Button

The **Loop** button is used to toggle looping audio.

- If a file is currently playing and loop is toggled on, the file is repeated until the loop button is toggled off.
- If a file is not currently playing and the loop is toggled on, the next file played is repeated until the loop button is toggled off.

Stop Button

The **Stop** button is used to stop audio play. In addition, the audio queue is cleared, and the audio streaming or file transfer from the Network Recorder is stopped.

Play Selected Files Button

The **Play Selected Files** button is used to play the selected audio files. If play is paused, pressing this button resumes the currently paused audio file.

Pause Button

The **Pause** button is used to pause the currently playing audio file. The audio queue does not change and network activity is not affected.

To **resume play**, do the following:

> Click **Play Selected Files**.
Audio play resumes.

Play Next Queued Entry Button

The **Play Next Queued Entry** button is used to play the next queued record in the list. If no records are in queue, audio play is stopped.

Volume Control Scroll Bar

The **Volume Control** scroll bar is used to adjust the application's volume.

To **adjust the volume**, do the following:

> Click and drag the **scroll box** left to lower the volume.
> OR
> Click and drag the **scroll box** right to raise the volume.

To **mute the volume**, do the following:

> Click the **speaker icon**.
> *The speaker icon changes to reflect mute/unmuted status*.

FIGURE 21. Volume Control

Comment Window

The **Comment** window, shown in Figure 22, is used to enter and apply comments to a record(s) in the database list. These comments are sent to the Network Recorder and synchronized with all Remote Database Reviewer clients connecting to the Network Recorder server.

NAVIGATION: Select **View|Comment** from the menu bar.

NOTE: Alternatively, right-click anywhere in the records list, select Comment. The Comment window appears.

FIGURE 22. Comment Window

Comment Pane

The **Comment** pane is used to enter a comment.

This field can contain up to *60 characters*.

Clear Button

The **Clear** button is used to clear all currently selected records' comment text and clear text from the Edit Comment pane. The comment is deleted from the database and is no longer visible to any other Remote Database Reviewer clients.

Apply Button

The **Apply** button is used to accept the current comment and apply it to each selected record.

Close Button

The **Close** button is used to close the window.

ANI Alias Table Window

The **ANI Alias Table** window, shown in Figure 23, is used to view the ANI alias list set up in the Network Recorder. ANI Alias filters can also be specified from this window.

NAVIGATION: Select **View|ANI Alias Table** from the menu bar.

To **create filters from the ANI Alias Table window**, do the following:

1. Select **one (1)** or **more records** in the list.
2. Right-click in the **alias table list**.
   The ANI Alias Table shortcut menu appears.
3. Select **Add to Filter.**
   All selections are added to the ANI filter control. Multiple records are separated by a semi-colon(;).

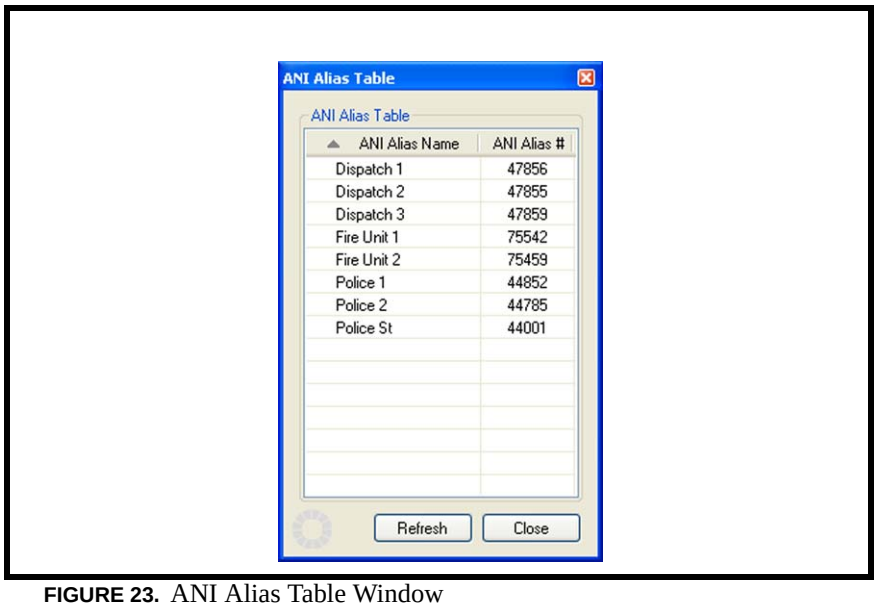


FIGURE 23. ANI Alias Table Window

ANI Alias Name Column

The **ANI Alias Name** column displays all ANI Alias names configured on the Network Recorder.

ANI Alias # Column

The **ANI Alias #** column is used to list all ANI Alias names configured on the Network Recorder.

Close Button

The **Close** button is used to close the window.

NOTE: Alternatively, the close button, , can be used to close the window.

Frequency Alias Table Window

The **Frequency Alias** table window, shown in Figure 24, is used to view the frequency alias lists setup in the Network Recorder. Frequency filters can also be specified from this window.

NAVIGATION: Select **View|Frequency Table** from the menu bar.

To **create filters from the Frequency Alias Table window**, do the following:

1. Select **one (1)** or **more records** in the list.
2. Right-click in the **frequency table list**.
   The Frequency Alias Table shortcut menu appears.
3. Select **Add to Filter.**
   All selections are added to the Frequency filter control. Multiple records are separated by a semi-colon(;)

   NOTE: *Multiple records are separated by a semi-colon (;).*

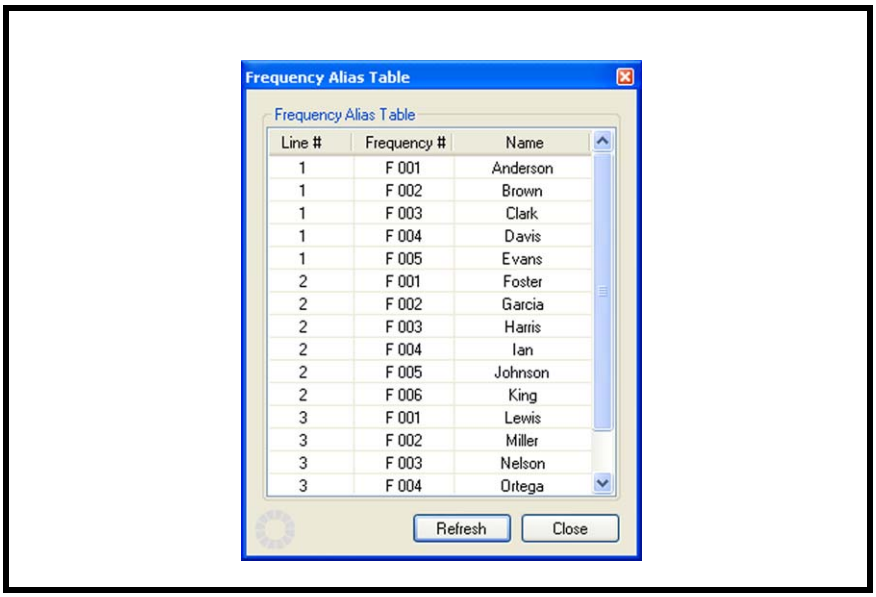


FIGURE 24. Frequency Alias Table Window

Line # Column

The **Line #** column lists the line number associated with each configured Frequency name and number.

Frequency # Column

The **Frequency #** column lists all frequency numbers configured on the Network Recorder.

Name Column

The **Name** column lists all frequency names configured on the Network Recorder.

Account Permissions Window

The **Account Permissions** window, shown in Figure 25, is used to view lines the current account can access. The account's line permissions are configured using the Network Recorder's Remote Database Reviewer Setup window. This window is useful for troubleshooting query issues. The current login is changed on the Connections page. For more information, see "Login Group Box" on page 48.

NAVIGATION: Select **View|Account Permission** from the menu bar.

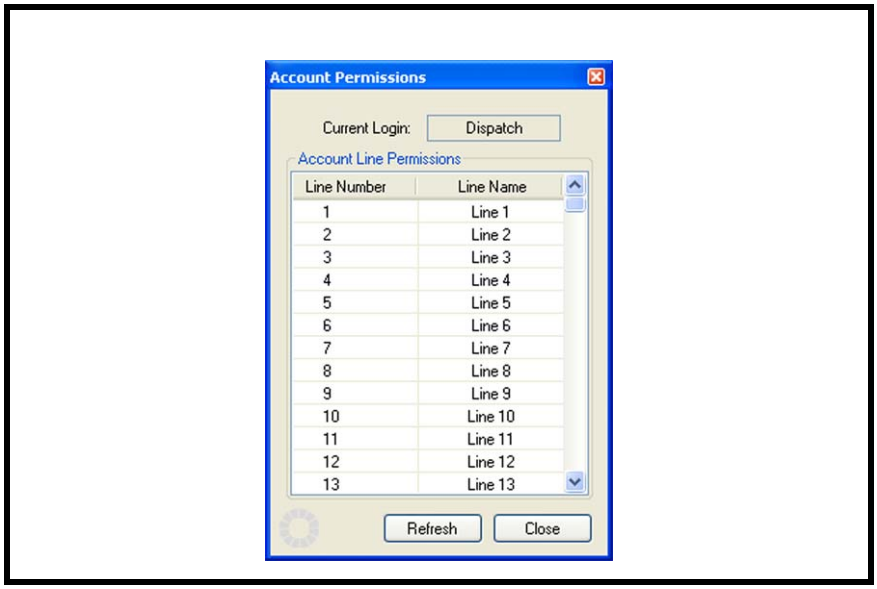


FIGURE 25. Account Permissions Window

Current Login Field

The **Current Login** field displays the current account login username.

Account Line Permissions List

The **Account Line Permissions** list displays all available lines the current login has access to.

Line Number Column

The Line Number column displays the line number the current login has access to.

Line Name Column

The **Line Name** column displays the name assigned to the line.

Refresh Button

The **Refresh** button is used to refresh the list. If changes to the current login permissions are made on the Network Recorder when the current login is active in Remote Database Reviewer, the list must be updated to view the new permissions.

Close Button

The **Close** button is used to close the window.

Export Records Tool Window

The **Export Records Tool** window, shown in Figure 26, is used to configure a destination for the exported report and mp3 files.

NAVIGATION: Select **File**|**Export** from the menu bar.

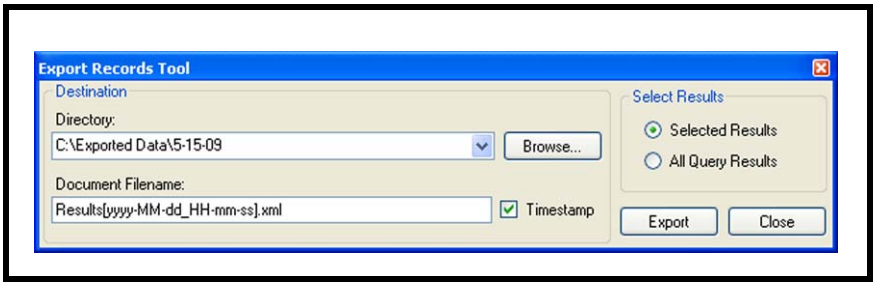


FIGURE 26. Export Records Tool

Destination Group Box

Directory Drop Down Menu

The **Directory** drop down menu is used to specify a directory path in which to export the report and audio files.

Browse Button

The **Browse** button is used to locate and select a destination directory for the report.

Document Filename Field

The **Document Filename** field is used to format the filename to include the date and time the file was created.

The default for this field is: *Results.xml*.

Timestamp Check Box

The **Timestamp** check box indicates a timestamp is appended to the exported report's filename.

By default, the date format is: *[yyyy-MM-dd_HH_mm_ss]*.

Select Results Group Box

The **Select Results** group box contains fields to configure which records to include in the export task.

Selected Results Radio Button

The **Selected Results** radio button indicates only the currently selected records will be included in the export task.

All Query Results Radio Button

The **All Query Results** radio button indicates all records in the record list are exported.

Export Button

The **Export** button is used to begin the export task.

To **export a report to a folder**, do the following:

1. Select **records** to export.
2. Select **File|Export** from the menu bar.
   The Export Records Tool window opens. See Figure 26.
3. In the Directory field, enter the **path**.
   The Destination Directory path appears in the field.
   OR
   Click **Browse**.
   The Browse for Folder window opens.
4. Select a **folder** to export the report to.
5. Click **OK**.
   The Destination Directory path appears in the field.
6. Select the **Timestamp** check box.
7. Enter a **name**, ending in for the file.
8. Select the **Selected Results** radio button, to export selected records.
   OR
   Select the **All Query Results** radio button, to export all records.
9. Click **Export**.
   The Export Task Progress window opens. Progress is indicated by the green progress line. The xml report and mp3 files are exported to the directory.,
10. Click **Open Folder**.
    A browser window to the destination directory opens.
11. Double-click the **.xml file**.
    A browser window with the destination directory opens.
12. Click an **mp3 file** to listen to the audio.
    The system default audio player opens and begins playing the specified audio file.

Close Button

The **Close** button is used to close the window.

Export Task Progress Window

The **Export Task Progress** window, shown in Figure 27, is used to monitor the export progress and open the folder containing the exported files.

Export process

During export, an XML report (formatted table) with all selected records is generated and placed in the destination directory and the selected record(s) are sequentially copied to it.

- If the record is in cache, the record is copied from the audio cache folder to the destination directory.
  The status is set to: *File copied from cache.*
- If the record is not in cache, the record is downloaded directly from the Network Recorder and placed in the destination directory.
  The status is set to: *File retrieved from server.*
- If an error occurs, the record's status column displays an error icon.

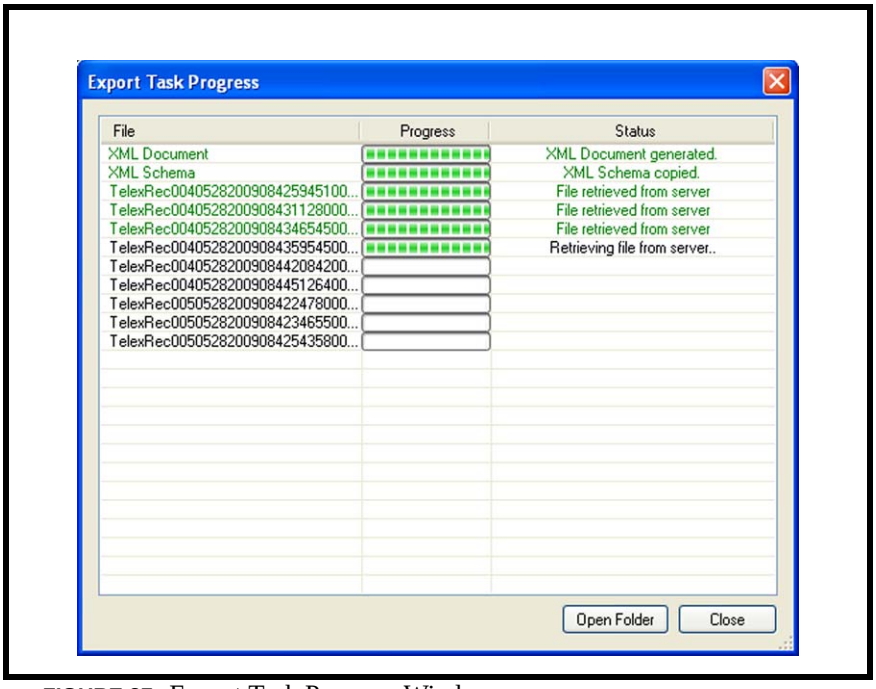


FIGURE 27. Export Task Progress Window

File Column

The **File** column displays the filename of the record in queue.

Progress Column

The **Progress** column displays an indication of the download progress. Once completed, the progress row is filled and the file finishes downloading or copying from the cache.

Status Column

The **Status** column displays the current status of the file and is updated in real-time.

Open Folder Button

The **Open Folder** button opens a Windows file browser to the destination export directory.

To **open the report**, do the following:

1. Once the export has finished, click the **Open Folder** button.
   A Windows file browser window opens to the destination directory.
2. Double-click the **.xml file**.
   A browser window listing exported files opens. See Figure 28.

   NOTE: The date and the MySQL query used to retrieve the report also appear on the report.

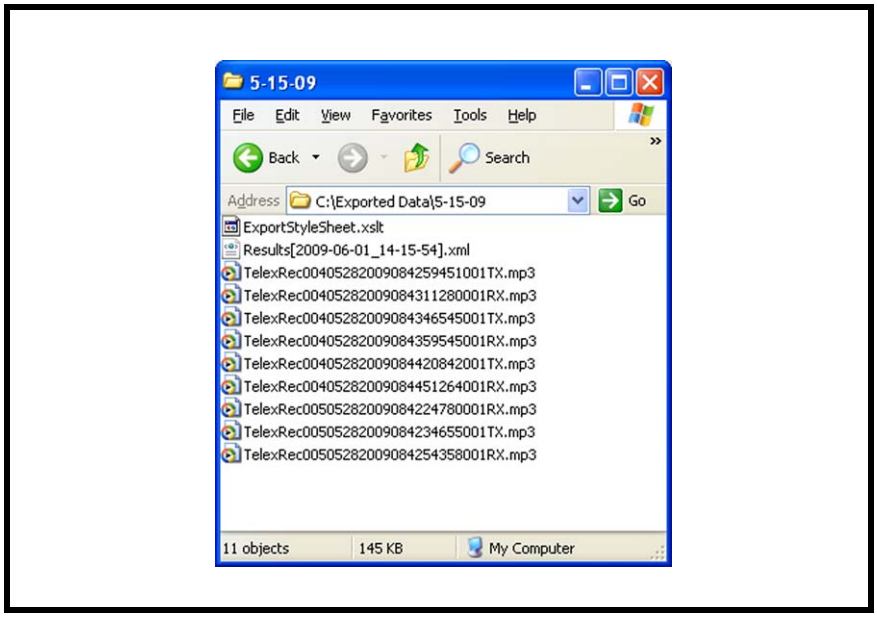


FIGURE 28. Exported Files

Close Button

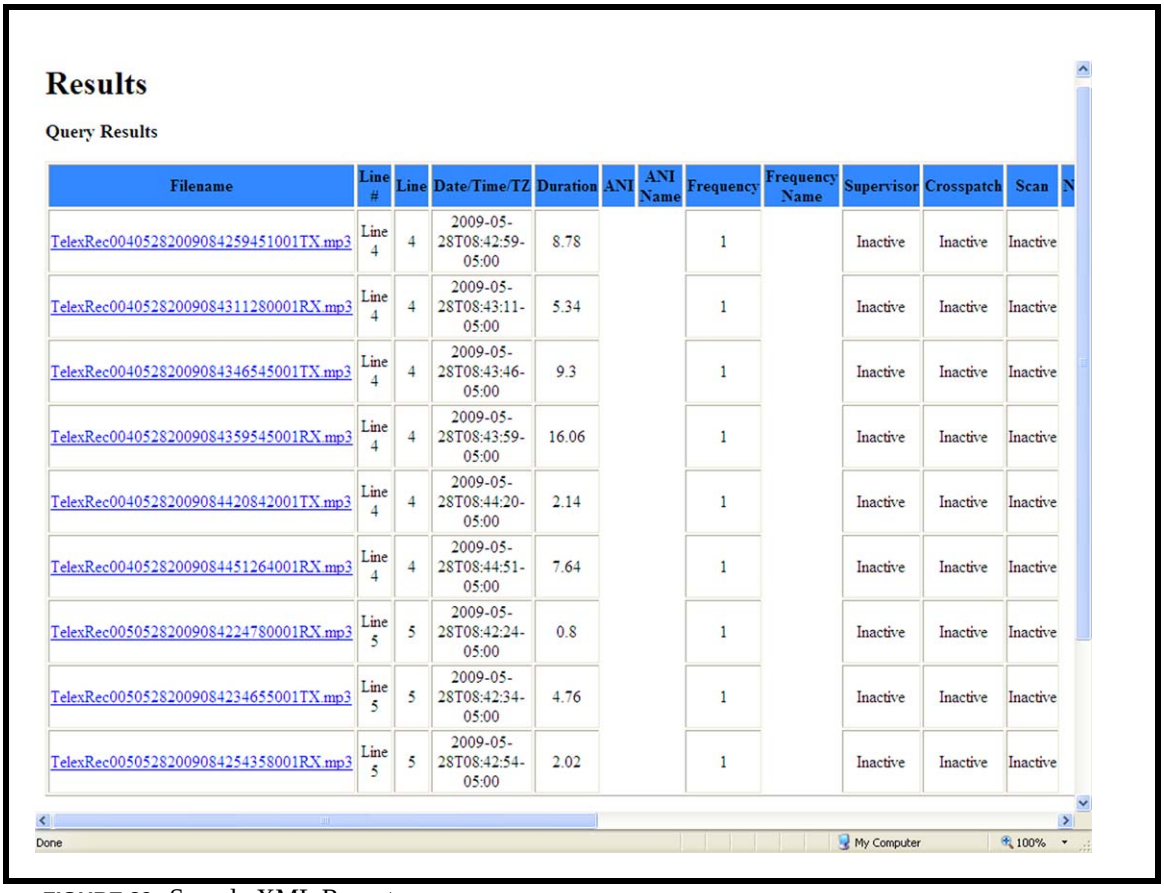
The **Close** button is used to close the window.

To **re-download records**, do the following:

1. Select the **record(s)** again.
2. Right-click in the **Records List**.
   A shortcut menu appears.
3. Select **Retry** from the shortcut menu.

XML Report

The **XML Report**, shown in Figure 29, contains all exported records with links to audio files for easy playback. Once the XML report, *XML schema*, and audio files are exported. The results are completely independent from the Remote Database Reviewer. The files can be copied or moved to another location, if desired, as long as the files are kept together.



Results

Query Results

Filename	Line #	Line	Date/Time/TZ	Duration	ANI	ANI Name	Frequency	Frequency Name	Supervisor	Crosspatch	Scan	N
TelexRec00405282009084259451001TX.mp3	Line 4	4	2009-05-28T08:42:59-05:00	8.78			1		Inactive	Inactive	Inactive	
TelexRec00405282009084311280001RX.mp3	Line 4	4	2009-05-28T08:43:11-05:00	5.34			1		Inactive	Inactive	Inactive	
TelexRec00405282009084346545001TX.mp3	Line 4	4	2009-05-28T08:43:46-05:00	9.3			1		Inactive	Inactive	Inactive	
TelexRec00405282009084359545001RX.mp3	Line 4	4	2009-05-28T08:43:59-05:00	16.06			1		Inactive	Inactive	Inactive	
TelexRec00405282009084420842001TX.mp3	Line 4	4	2009-05-28T08:44:20-05:00	2.14			1		Inactive	Inactive	Inactive	
TelexRec00405282009084451264001RX.mp3	Line 4	4	2009-05-28T08:44:51-05:00	7.64			1		Inactive	Inactive	Inactive	
TelexRec00505282009084224780001RX.mp3	Line 5	5	2009-05-28T08:42:24-05:00	0.8			1		Inactive	Inactive	Inactive	
TelexRec00505282009084234655001TX.mp3	Line 5	5	2009-05-28T08:42:34-05:00	4.76			1		Inactive	Inactive	Inactive	
TelexRec00505282009084254358001RX.mp3	Line 5	5	2009-05-28T08:42:54-05:00	2.02			1		Inactive	Inactive	Inactive	

Done My Computer 100%

FIGURE 29. Sample XML Report

Options Window

The **Options** window, shown in Figure 30, is used to navigate to the Connection, Database, Audio Cache, and Skin pages. These pages are used to configure a connection to a Network Recorder database as well as specifying basic parameters for and appearance of the records list.

NAVIGATION: Select **Tools|Options** from the menu bar.

OK Button

The **OK** button is used to close the Options window. Once clicked the changes are saved and the Options window closes. The OK button can be accessed from any page in the Options window.

Cancel Button

The **Cancel** button is used to cancel all changes to the Options window. Once clicked, changes made to the any page are discarded and the Options window closes. The Cancel button can be accessed from any page in the Options window.

Connection Page. The **Connection** page, shown in Figure 30, is used to configure settings required to connect to a Network Recorder, and to test the connection to the Network Recorder.

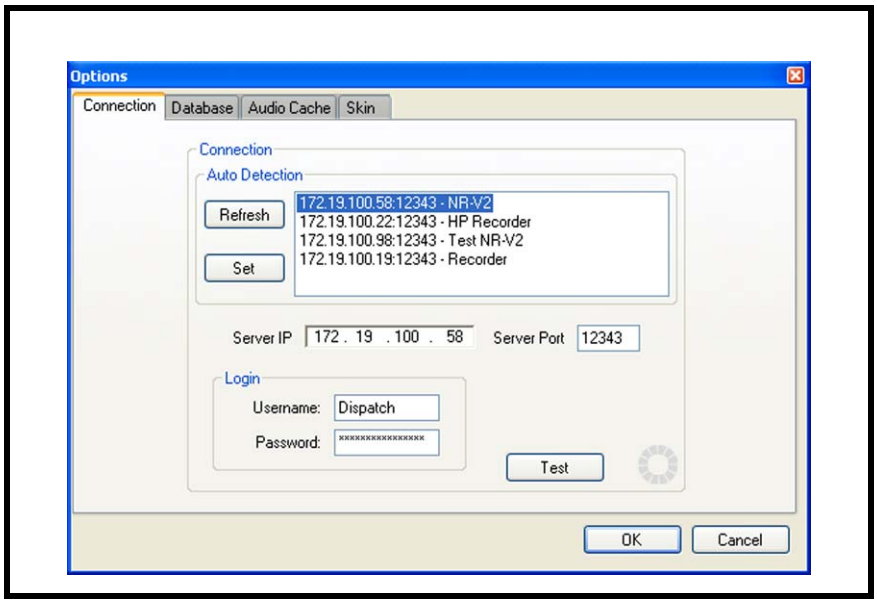


FIGURE 30. Connection Page

Connection Group Box

The **Connection** group box contains the Auto Detection tool, host connection settings, credentials, as well as a tool to test the Network Recorder connection.

Auto Detection Group Box

The **Auto Detection** group box contains tools to automatically detect all Network Recorder programs running on the same network under the same subnet. If a Network Recorder does not appear in this list, it is still possible to connect to it by manually entering the desired settings.

NOTE: Auto Detection does not detect a Network Recorder program running on the same computer as Remote Database Reviewer.

Auto Detection List

The **Auto Detection** list displays a list of Network Recorders accessible from Remote Database Reviewer. Each line represents one (1) Network Recorder accessible from Remote Database Reviewer and contains the IP Address, Port and Server name for each.

To **auto fill the Host IP and Host Port fields**, do the following:

> Double-click an **entry** with the Network Recorder's information.
> OR
> Click **Set**.

NOTE: If a computer has an active firewall, the Remote Database Reviewer may be blocked from being able to automatically detect the Network Recorder program. In this case, a message box appears, prompting the user to allow or block Remote Database Reviewer. If a third party firewall is installed, the firewall must also be configured to allow Remote Database Reviewer access.

Refresh Button

The **Refresh** button is used to detect any Network Recorder program currently running on the network. Once the list has been refreshed, a list of detected Network Recorder appears in the Auto Detection list.

Set Button

The **Set** button sets the Host IP and Host Port values to the currently selected entry in the Auto Detection List.

Host IP Field

The **Host IP** field is used to manually enter an IP Address to connect to.

Host Port Field

The **Host Port** field is used to manually enter a port number to connect to the Host IP with.

Test Button

The **Test** button is used to test the connection to the specified Host IP Address, host port number and login credentials.

Login Group Box

The **Login** group box contains user account login fields. User accounts are created in Network Recorder.

REFERENCE: For more information, see Network Recorder Technical Manual (PN804083).

Username Field

The **Username** field is used to specify an account's username to log into the Network Recorder program.

This field can contain up to *16 alphanumeric characters*.

Password Field

The **Password** field is used to specify an account's password to log into the Network Recorder program.

This field can contain up to *16 digits*.
Passwords can not be blank.

Database Page. The **Database** page, shown in Figure 31, is used to specify the **ODBC** (Open Database Connection) driver and maximum entries to display.

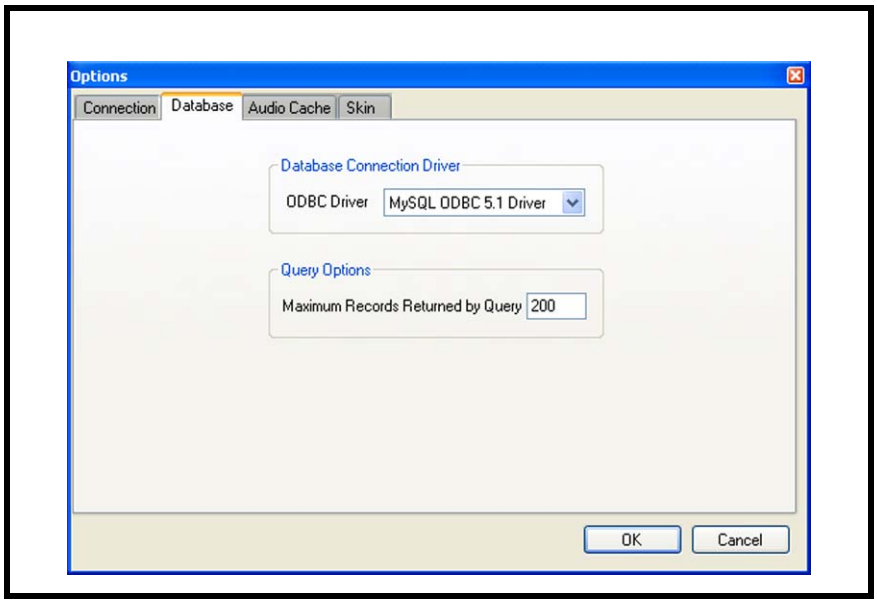


FIGURE 31. Database Page

Query Options Group Box

The **Query Options** group box contains fields to help manage database connections and the number of records to display.

Database Connection Drop Down Menu

The **Database Connection** drop down menu is used to select an ODBC driver for the database connection.

NOTE: The MySQL ODBC 5.1 Driver is recommended.

Maximum Entries Returned by Query Field

The **Maximum Entries Returned by Query** field is used to configure the total results to display in the records list once a query has been executed.

The range for this field is *1* to *1000*.

Audio Cache Page. The **Audio Cache** page, shown in Figure 32, contains controls to manage the audio cache file. The cache folder is located at C:\Documents and Settings\<current user>\Local Settings\Application Data\Telex\Remote Database Reviewer\<version number>.

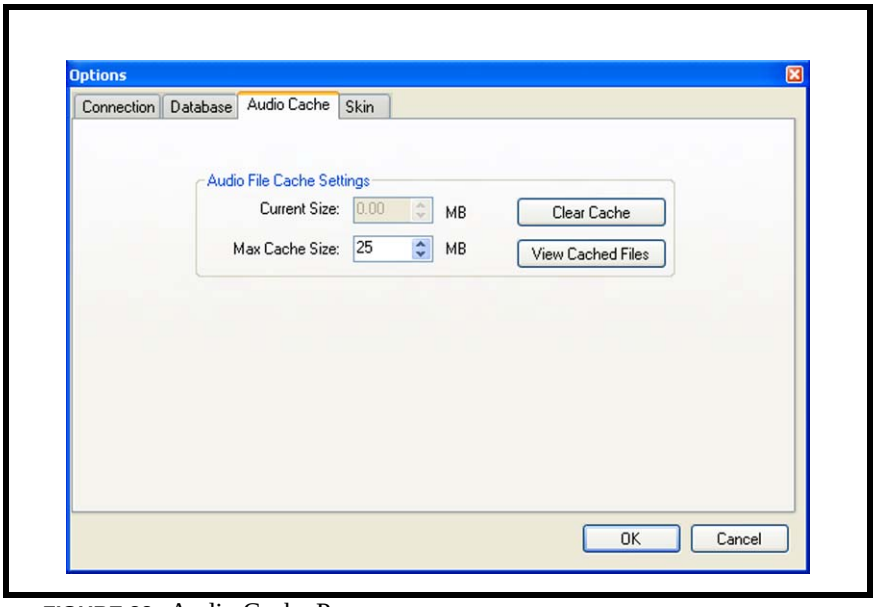


FIGURE 32. Audio Cache Page

Audio File Cache Setting Group Box

The **Audio File Cache Setting** group box contains fields to control the size of the cache folder.

Current Size Spin Box

The **Current Size** spin box displays the current size, in megabytes, of the audio cache.

This field is not editable.

Max Cache Size Spin Box

The **Max Cache Size** spin box specifies the maximum size the audio cache reaches before it starts to delete audio files. Once this value is exceeded, Remote Database Reviewer deletes the oldest files in the cache until the specified size is reached.

The range for this field is *10* to *100 megabytes*.

View Cached Files Button

The **View Cached Files** button opens a Windows Explorer window to the cached directory.

Clear Cache Button

The **Clear Cache** button deletes all audio files from the cache folder.

Skin Page. The **Skin** page, shown in Figure 33, allows you to change Remote Database Reviewer window's appearance. Several skins are included in the skin folder located in Remote Database Reviewer's installation directory.

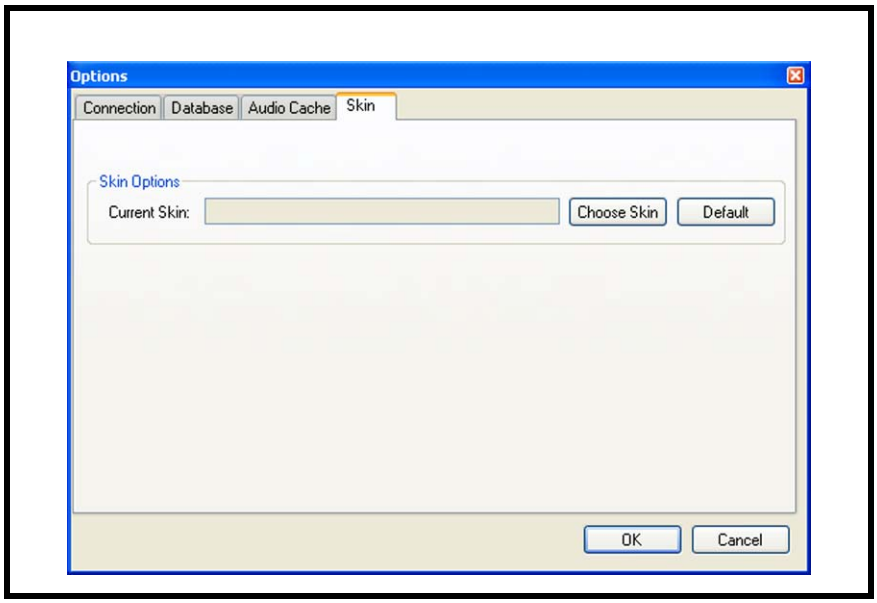


FIGURE 33. Skin Page

Skin Options Group Box

The **Skin Option** group box contains fields to select a skin to apply.

Current Skin Field

The **Current Skin** field shows the file path and name of the currently selected active skin.

Choose Skin Button

The **Choose Skin** button opens the Open Skin File window. A list of available skins displays in the list. See Figure 34.

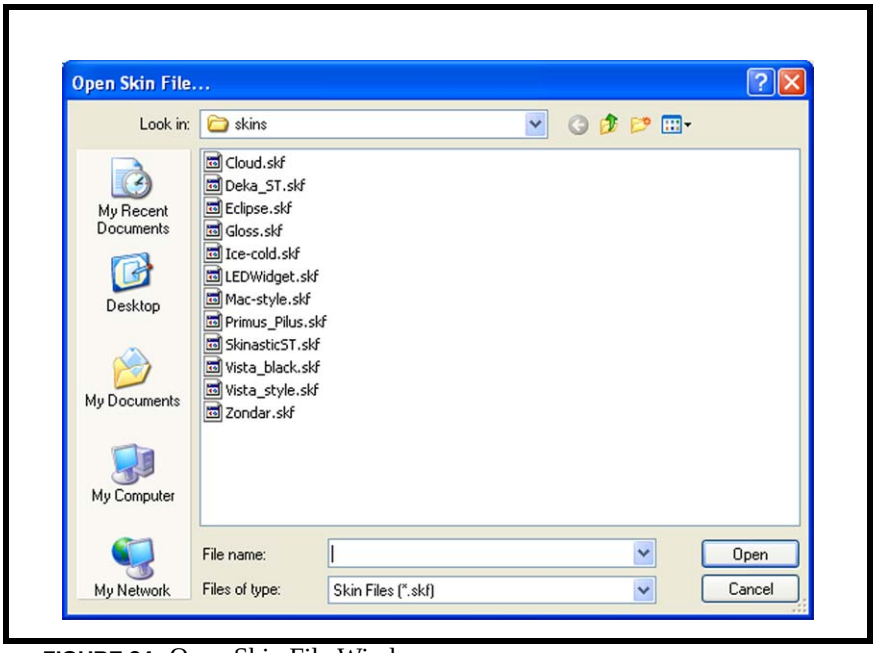


FIGURE 34. Open Skin File Window

To **apply a new skin**, do the following:

1. From the Skin page, click **Choose Skin**.
2. From the Open Skin File window, select a **skin** to apply.
3. Click **OK**.
   The Remote Database Reviewer appearance changes to the selected skin.

Default Button

The **Default** button is used to restore Remote Database Reviewer to the default Windows skin.

About Telex Remote Database Reviewer

The **About Telex Remote Database Reviewer** window displays version and copyright information.

NAVIGATION: Select **Help|About** from the menu bar.

Exit Remote Database Reviewer

The **Exit Remote Database Reviewer** window is used to exit the Remote Database Reviewer applications.

NAVIGATION: Select **File|Exit** from the menu bar.

Alternatively, the **close** button, can be used to close the window.

Notes: