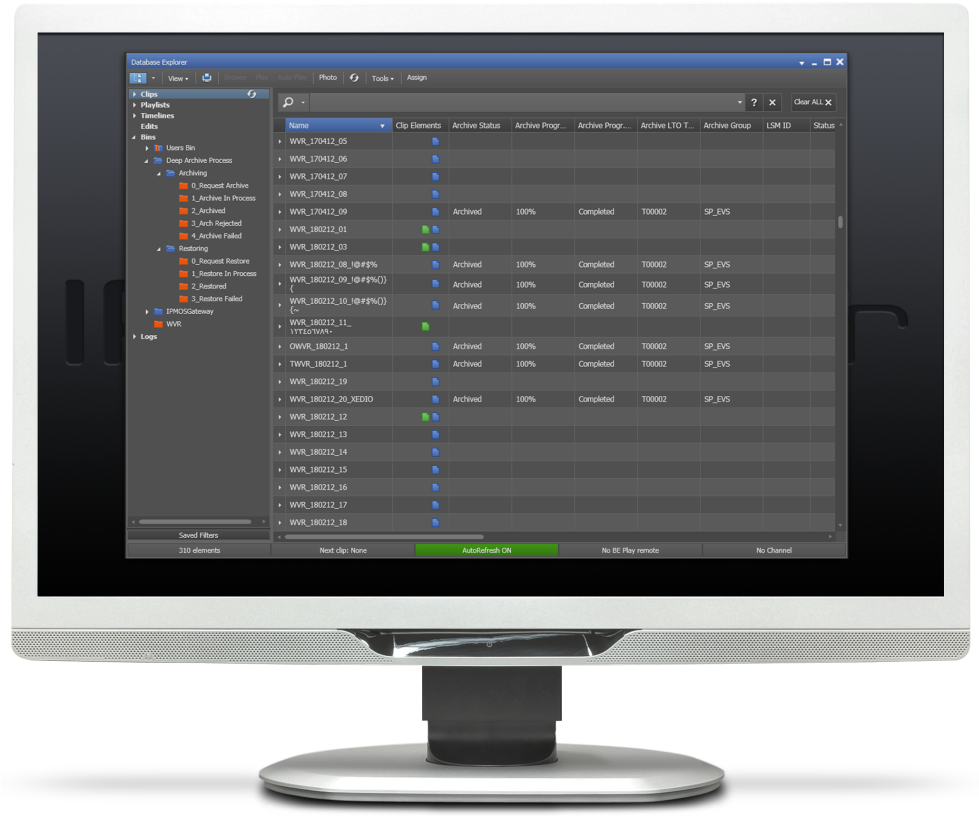
CONFIGURATION MANUAL

FILE TRANSFER DAEMON

Version 3.7 - June 2014



IP2Archive

EVS

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Your comments will help us improve the quality of the user documentation. Do not hesitate to send improvement requests, or report any error or inaccuracy on this user manual by e-mail to doc@evs.com.

Regional Contacts

The address and phone number of the EVS headquarters are usually mentioned in the Help > About menu in the user interface.

You will find the full list of addresses and phone numbers of local offices either at the end of this user manual (for manuals on hardware products) or at the following page on the EVS website: http://www.evs.com/contacts.

User Manuals on EVS Website

The latest version of the user manual, if any, and other user manuals on EVS products can be found on the EVS download center, on the following webpage: http://www.evs.com/downloadcenter.

Table of Contents

What's New

In the Configuration Manual of the File Transfer Daemon the icon NEW ! has been added on the left margin to highlight information on new and updated features.

The changes linked to new features in version 3.7 are listed below.

The version of the application and the validity of the license are checked at startup.

- See section "Version and License Check" on page "3".

The splash screen now also displays the database name and version and the date until which the license is valid.

See section "Main Window Overview" on page "5"

The columns in the main window grid can now be re-arranged, hidden and made visible again.

- See section "Reordering Columns" on page "11".
- See section "Hiding and Unhiding Columns" on page "10".

The settings have been rearranged and certain settings can only be configured in the Configurator.

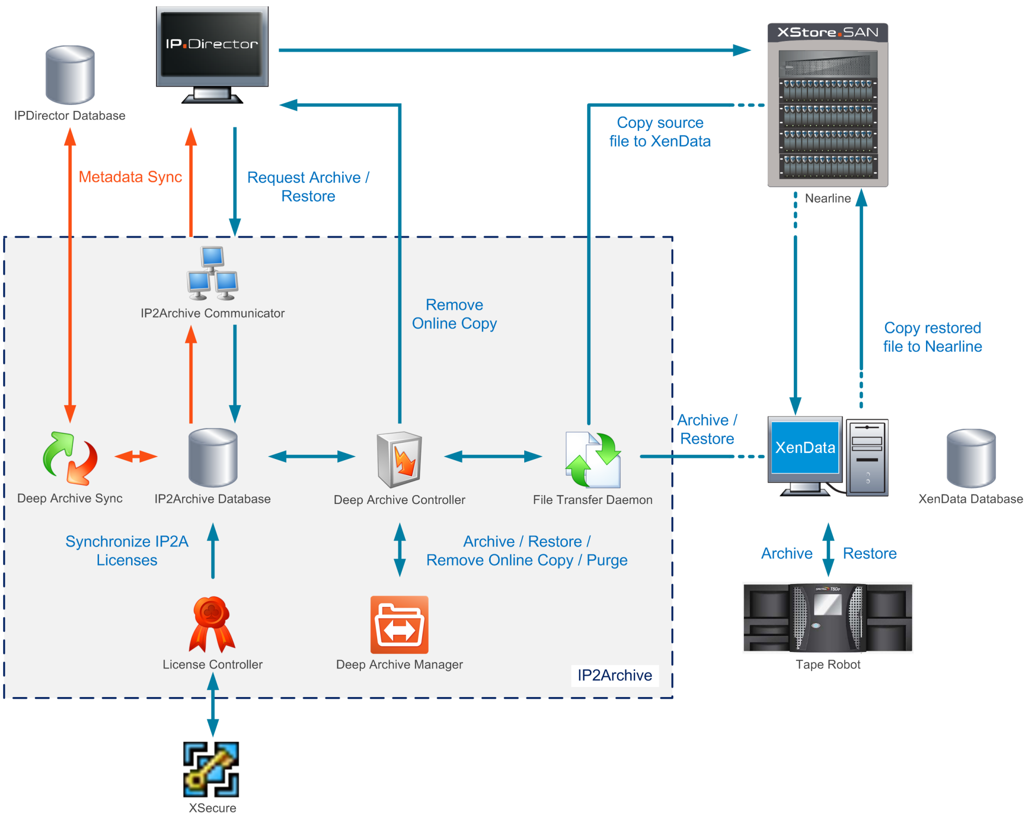
1. About the Application

General Description

File Transfer Daemon is an automated application that transfers the files to be archived (video files, metadata XMLs, etc.) from the IPDirector nearline storage to the XenData Cache where it will be picked up by the XenData archiving workflow. For restores it will check when the restoring from LTO to the Cache is finished and then transport the file back to the IPDirector nearline storage.

Workflow

The diagram below shows the interactions between IPDirector and the various IP2Archive software components, and between the various IP2Archive software components and the HSM system. When IP2Archive interfaces with SGL's FlashNet, Front Porch Digital's DIVArchive or Atempo's Digital Archive, File Transfer Daemon is replaced by Tape Storage Controller.



1.1. After Installation

Double-click the File Transfer Daemon icon on the desktop of the application server to start the application. You can also start the application by double-clicking the executable file (.exe) in the installation folder.

The splash screen appears.

The application logs into the database. Then, the Settings window appears allowing you to configure the application.

See section "Settings Window" on page "12".

1.2. After Configuration

Double-click the File Transfer Daemon icon on the desktop of the application server to start the application. You can also start the application by double-clicking the executable file (.exe) in the installation folder.

The splash screen appears. The application logs into the database.

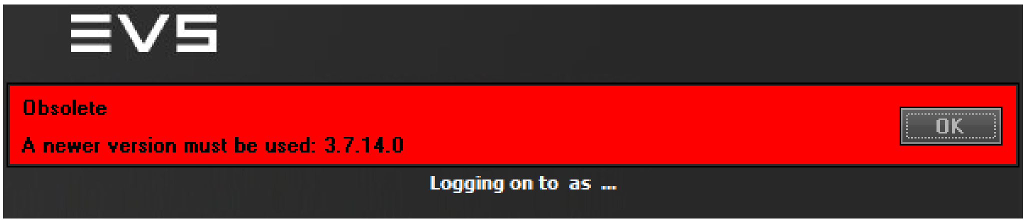
Then, the main window opens. Depending on the settings, the application will either automatically start executing file transfers after a certain time interval, or you will have to click the **Start** button first.

1.3. Version and License Check

Introduction

NEW !

The version of the application and the validity of the application license will be checked when the application logs into the IP2Archive database at startup. The status of the version or the license that is returned is displayed on the application splash screen.



Version and License Statuses

The following version and license statuses can be returned:

Status	Description	Color	Action Required
Current	The actual version of the application.	no color	No action required. The application starts automatically.
Outdated	A newer version of the application exists, but this version can still be used. The application version that should be installed is displayed.	red	Click **OK** to start the application at once. By default, the application starts automatically after 10 seconds.
Obsolete	A newer version of the application exists and must be used. This version may not be used anymore. The application version that should be installed is displayed.	red	Click **OK** to continue. The application shuts down.
Undefined	The version of the application is not defined in the MAD database.	black	Click **OK** to continue. The application shuts down.

Status	Description	Color	Action Required
Beta	A test version.	blue	Click **OK** to start the application. By default, the application starts automatically after 10 seconds.
License About to Expire	The license period is about to expire. It is shown in how many days the license will expire. Contact your system administrator or check the License Controller manual.	orange	Click **OK** to start the application at once. By default, the application starts automatically after 10 seconds.
License Expired	The license period has expired. The date when the license expired is displayed. Contact your system administrator or check the License Controller manual.	red	Click **OK** to continue. The application shuts down.
No Valid License	There was no valid license found in the database. Contact your system administrator or check the License Controller manual.	red	Click **OK** to continue. The application shuts down.
Maximum Licenses Reached	The maximum number of instances <NUMBER OF LICENSES> for the license has been reached. Contact your system administrator or check the License Controller manual.	red	Click **OK** to continue. The application shuts down.

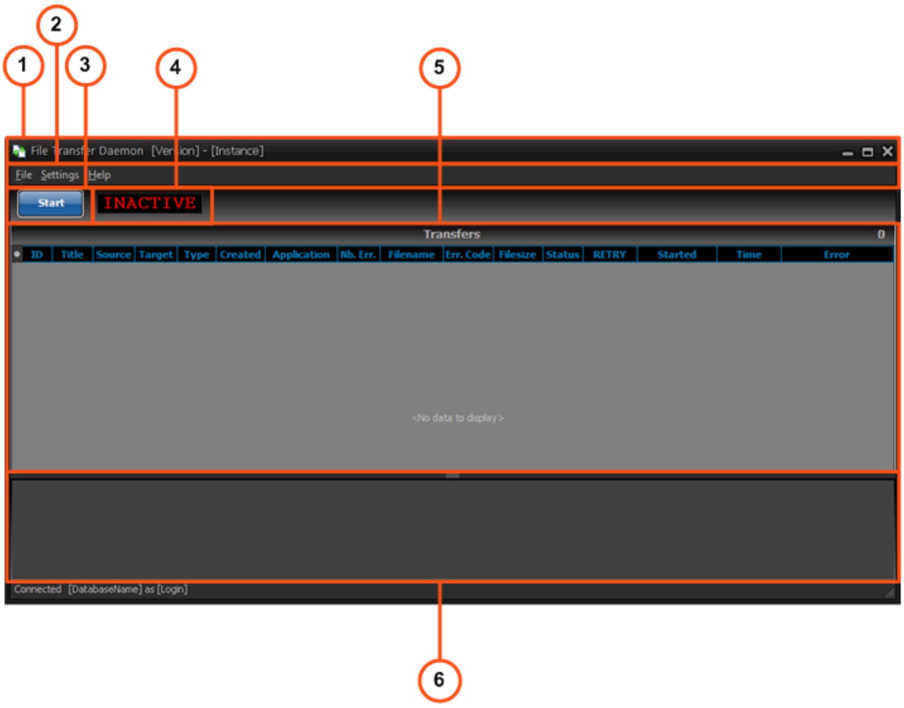
1.4. Main Window Overview

General Description

The main window displays the file transfers that are being or have already been performed. It allows you to monitor the file transfer status and progress, check for possible errors and retry failed transfers.

Illustration

The main window contains the areas highlighted on the screenshot below:



Area Description

The table below describes the various parts of the main window:

Part	Name	Description
1.	Title bar	The Title bar displays the name of the application and the software version number. Between square brackets the instance of the application that was selected in the settings appears. If no instance has been selected yet, [Undefined] appears.

Part	Name	Description
2.	Menu bar	The Menu bar contains three menus: **File**, **Settings** and **Help**.
3.	Start/Stop buttons	The **Start**/**Stop** buttons are used to manually start and stop the application.
4.	Status field	The **Status** field displays the current status of the application.
5.	Transfers pane	The Transfers pane gives an overview of the file transfers that are being or have been executed by the application. The status of each file transfer is displayed.
6.	Log pane	The Log pane lists application events and can be useful when you are trying to verify that automations are working correctly. The date and time of each event is displayed. By default, this pane is hidden. To display it, click the splitter bar.

Menu Bar

The menu bar contains three menus: **File**, **Settings** and **Help**.

File Menu

The **File** menu contains only one command: **Exit**. It is used to exit the application. Click the **File** menu or use the keyboard shortcut keys **ALT** + **F** or **F10** + **F** to open it. Click **Exit** or use the keyboard shortcut key **X** to exit the application.

Settings Menu

The **Settings** menu does not contain any commands. It immediately gives access to the application settings. Click the **Settings** menu or use the keyboard shortcut keys **ALT** + **S** or **F10** + **S** to access the settings.

Help Menu

The **Help** menu contains only one command: **About**. Click the **Help** menu or use the keyboard shortcut keys **ALT** + **H** or **F10** + **H** to open it.

NEW !

With the **About** command the application about box can be opened. The about box displays the application software version, the date until which the application license is valid, the name and version of the database the application is logged on to and the login name used.

Click **About** or use the keyboard shortcut key **A** to open the about box.

Note
These menus only become available after you have clicked the **Stop** button.

Status Field

The **Status** field displays the current status of the application.

In Automatic Mode, the **Status** field will display the status **AUTO** at start-up, indicating that the application will automatically start processing file transfer requests and executing file transfers. After a certain time interval specified in the settings, the status will automatically turn into **Active**.

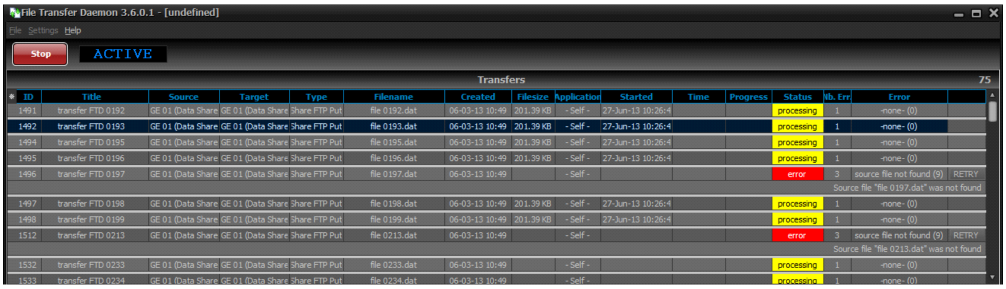
In Manual Mode, the **Status** field will display the status **INACTIVE**at startup. If you then click the **Start** button, the status will immediately turn into **ACTIVE**.

Warning
File Transfer Daemon cannot be exited while performing transfers. You will have to click the **Stop** button first before you can exit File Transfer Daemon.

2. Monitoring File Transfers

2.1. File Transfer Data

The File Transfer pane displays the information about the file transfer jobs that have been or that are being executed.



The table below describes the information that is displayed:

Data	Description
Application	Name of the File Transfer Daemon instance that is performing the file transfer. This field is empty if the instance is undefined.
Created	Time and date the file transfer job was requested.
Error	Brief description of the error that occurred. This field is empty if there are no errors.
Filename	Name of the file to be transferred.
Filesize	Size of the file to be transferred. This field is empty is the filesize is 0.
ID	Unique identifier of the file transfer job.
Nb. Err.	Number of times File Transfer Daemon transferred the requested file unsuccessfully. This field is empty if the number of errors is 0.
Progress	Progress bar displaying the progress of the file transfer. This field is empty if the file transfer has not started yet.
Source	Name of the source folder volume.
Started	Date and time the file transfer started. This field is empty if the file transfer has not started yet.
Status	Status of the file transfer job.
Target	Name of the target folder volume.
Time	Duration of the file transfer. This field is empty if the file transfer has not started yet.
Title	Name of the file transfer job.
Type	Type of transfer method used.

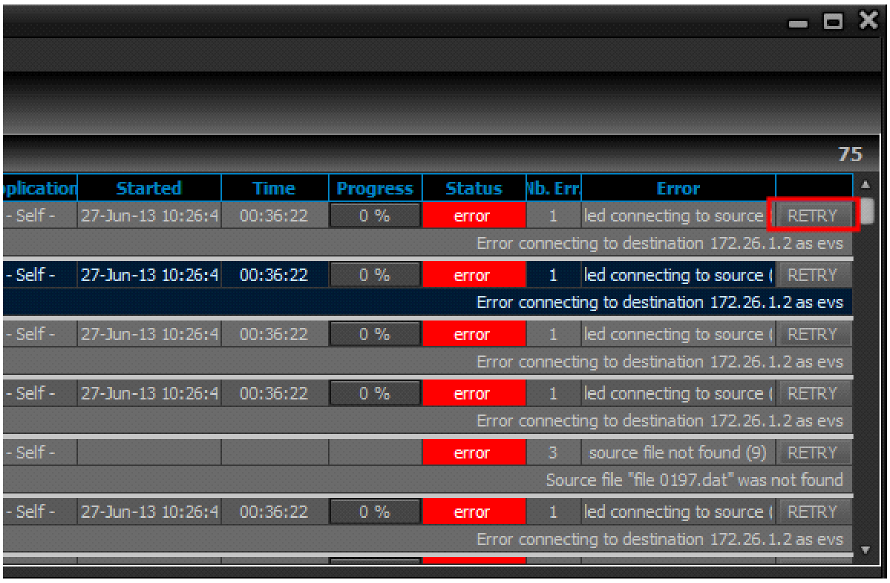
2.2. File Transfer Status

Each file transfer can have one of the following statuses:

Status	Color	Description
Abort Req.	orange	A request has been made to abort the file transfer.
Aborted	olive	The file transfer has been aborted.
Error	red	An error occurred during the file transfer.
Executed	lime	The file transfer has been executed successfully.
Failed	purple	The file transfer has reached its maximum number of retries, i.e. went in error the maximum number of times.
Other Appl	blue	The file transfer request has been assigned to another File Transfer Daemon instance.
Processing	yellow	The file transfer is being executed.
Requested	white	The file transfer has been requested and assigned to this File Transfer Daemon instance.
Undefined	gray	The file transfer request has not yet been assigned to a particular File Transfer Daemon instance.

2.3. Retrying File Transfer Errors

Sometimes, an error can occur during a file transfer. The file transfer job will go into error. A **Retry** button and a detailed error description will appear.



If you click the **Retry** button, File Transfer Daemon will retry a number of times to perform the file transfer job. The number of retries has been configured in the database and depends on the type of error. The error code will be reset to 0 and the status will be set to Requested again.

As long as the file transfer job has not failed, you can retry it. Once the file transfer job has failed, the **Retry** button will no longer be available.

2.4. Hiding and Unhiding Columns

You can temporarily hide columns from a grid without having to remove them. Afterwards, you can easily make them visible again.

How to Hide a Column

To hide a particular column from a grid, proceed as follows:

1. Click the **Show/Hide/Move** button in the top left corner of the grid.

   A drop-down list will appear with the available columns.

2. Deselect the check box next to the header of the column you want to hide from the grid.

How to Unhide a Column

To make a hidden column visible again, proceed as follows:

1. Click the **Show/Hide/Move** button in the top left corner of the grid.

   A drop-down list will appear with the available columns.

2. Select the check box next to the header of the column you want to make visible again.

2.5. Reordering Columns

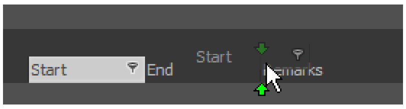
If you want the information in a grid to be displayed in a different order, you can change the position of the columns. There are two ways to reorder columns.

Using a Drag-And-Drop Action

To reorder a column by directly dragging its header, proceed as follows:

1. Click the header of the column you want to move and hold down your left mouse button.
2. Drag the column header to the desired position in the grid.

   Two arrows will indicate where it is possible to insert the column.

   A black prohibition sign will indicate where the column cannot be inserted.

3. Release the left mouse button to insert the column.

Using the Show/Hide/Move Button

You can also reorder the columns of a grid by using the **Show/Hide/Move** button:

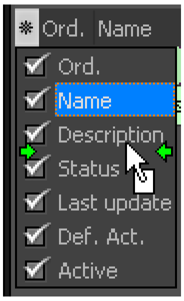
1. Click  on the left side of the first column header.

   A drop-down list containing the headers of the grid columns appears. The column headers are listed in the order in which the columns are displayed in the grid. The first header in the list is the leftmost field in the grid. The columns that are visible in the grid are selected.

   The headers in the screenshot below can differ from the headers available in your application.

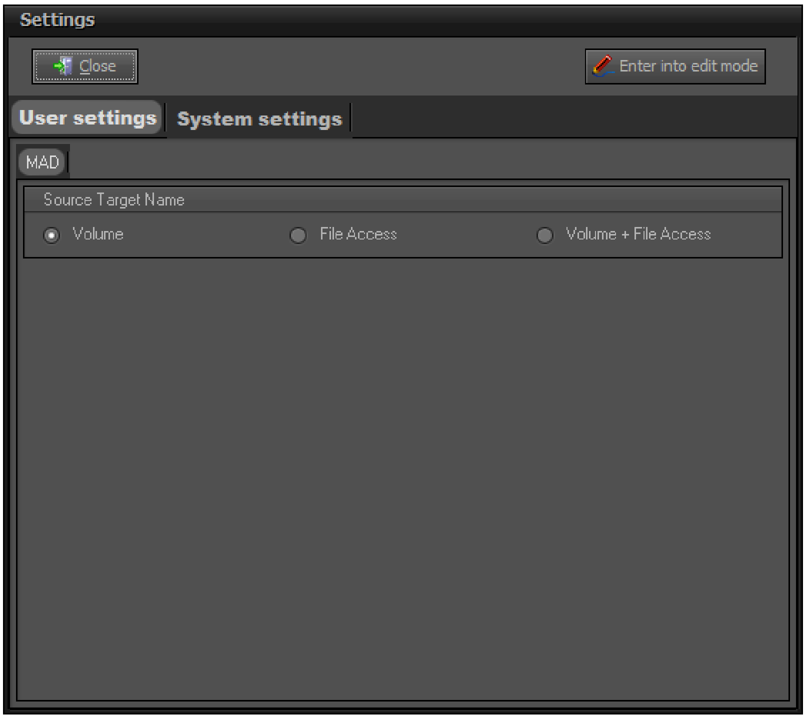
2. Select a header and drag it to the desired position in the list. Green arrows will appear indicating where you can insert the grid.



2.6. Settings Window

Opening the Settings Window

The Settings window allows you to configure your application. The first time the application is launched after it has been installed, the Settings window opens automatically.



To make this menu available, click the **Stop** button. The application will stop performing its tasks.

Overview Setup Categories

The settings can be divided into two setup categories. In the Settings window, a tab is provided for each setup category. The table below briefly describes each setup category:

Setup Category	Description
User Settings	These settings can be configured by each individual user.
System Settings	These settings configure the general functioning of the application. They can only be configured by the system administrator.

Edit Mode

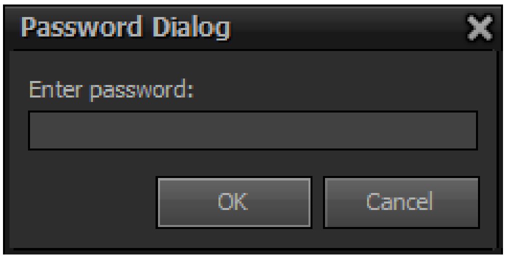
To be able to edit the System settings, you first have to enter a password.

To put the Settings window into Edit Mode, proceed as follows:

1. Click the **Enter Into Edit Mode** button 

.

   A dialog box appears.

2. Enter the administrator password and then click **OK**.

   The Settings window enters into Edit Mode.

Note
Certain settings are read-only and cannot be configured. These can only be modified in the Configurator application. Other settings have to be configured locally.

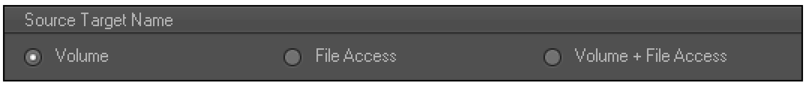
2.6.1. Overview User Settings Subcategories

The System settings are divided into the following subcategories:

- MAD

2.6.2. MAD Tab

The MAD tab allows you to configure how the name of the source and target location will be displayed in the main window of File Transfer Daemon.



If you select the radio button:

- **Volume**, the name of the source, i.e. the storage area containing the file that has to be transferred, will only contain the source storage volume name. The name of the target, i.e. the storage area the file has to be transferred to, will only contain the target storage volume name. By default, this option is selected.

- **File Access**, the name of the source will only contain the name of a specific folder on the source storage volume. The name of the target will only contain the name of a specific folder on the target storage volume.
- **Volume + File Access**, the name of the source will contain the name of the source storage volume and a specific folder on this volume. The name of the target will contain the name of the target storage volume and a specific folder on this volume.

2.6.3. Overview System Settings Subcategories

The System settings are divided into the following subcategories:

- Logging
- MAD Options
- Oracle Connection
- E-Mail Options
- FTP

For each subcategory a tab is provided.

2.6.4. Logging Tab

The Logging tab allows you to configure the log file management by File Transfer Daemon.

Configuring Log File Management

To be able to configure the log file management, you have to select the **Log Files** check box in the Log Files group box. The other settings in this group box become available then. Once you have selected this check box, File Transfer Daemon will generate a new log file every day. By default, this check box is selected.

In the **Log Files Directory** field, you can enter the path of the log file storage folder manually or you can browse for it by clicking . The default log file storage folder is `edLogFilesDir`.

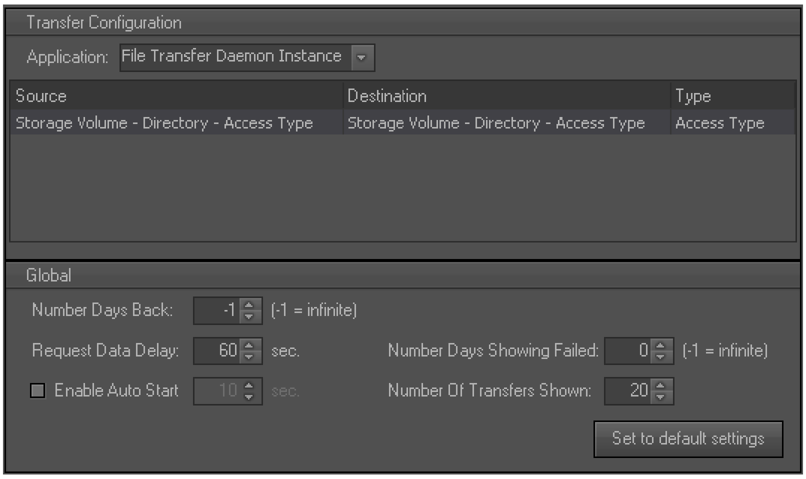
In the **Cleanup Period (Days)** field you can enter a time interval (in days) after which File Transfer Daemon will clean up the generated log files. By default, this is set to 32 days. If you enter '0', the log files will never be cleaned up.

Configuring Log Events Share Copy Transfers

In the **Log Event Frequency** field, you can specify after how many events a log is displayed in the Log pane conveying the progress of the file share copies being performed. By default, this is set to '1000'.

2.6.5. MAD Options Tab

The MAD Options tab allows you to configure the file transfer process.



Selecting File Transfer Daemon Instance

You first have to select the correct File Transfer Daemon instance from the **Application** list. An overview will appear of the types of transfer configurations that will be processed by this application.

In the **Source** column the following information is displayed: name of the source storage volume – name of a particular folder on the source storage volume – file access type.

In the **Destination** column the following information is displayed: name of the target storage volume – name of a particular folder on the target storage volume – file access type.

In the **Type** column the type of file access used is displayed.

Configuring the Frequency of Automated Tasks

The Global group box allows you to configure the frequency of a number of automated tasks.

In the **Number Days Back** field, you can specify how far back in time (in days) File Transfer Daemon goes to process the file transfer requests in the database. By default, this is set to infinite, i.e. '-1'.

In the **Request Data Delay** field, you can specify how frequently (in seconds) File Transfer Daemon will check the database for new file transfer requests. By default, this is set to '60'.

If you select the **Enable Auto Start** check box, File Transfer Daemon will automatically start processing file transfer requests at start-up. By default, this check box is not selected. You can also specify the time interval after which File Transfer Daemon will start processing the file transfer requests. By default, this is set to '10'.

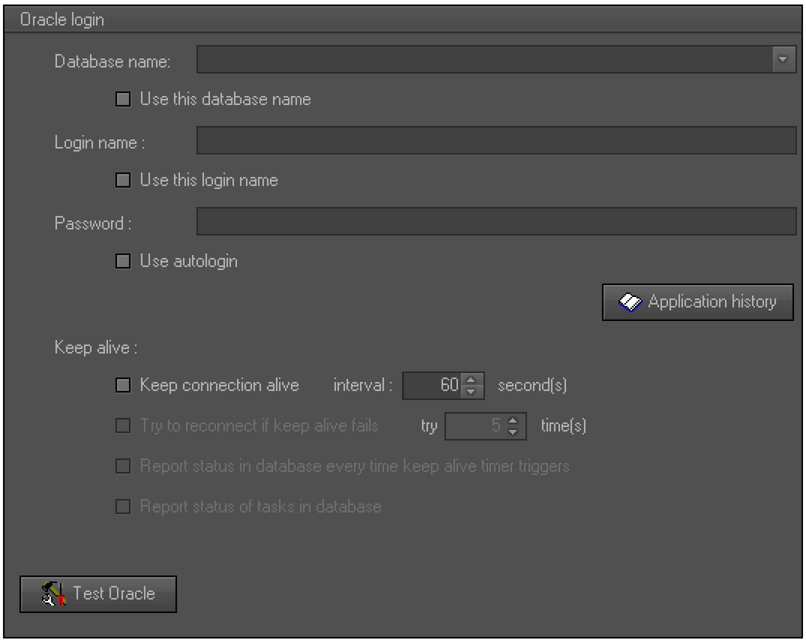
In the **Number Days Showing Failed** field you can specify how long (in days) a failed file transfer will stay visible in the File Transfer pane. By default, this is set to '0'.

In the **Number of Transfers Shown** field you can define how many transfer jobs at maximum will be displayed in the File Transfer pane. By default, this is set to '20'.

If you have modified the default settings, you can restore them by clicking the **Set to Default Settings** button.These settings have been configured in the Configurator application.

2.6.6. Oracle Connection Tab

The Oracle Connection tab allows you to configure the connection with the Oracle database.



Entering the Database Name

In this field you have to enter the name of the database the application has to connect to.

If the **Use This Database Name** check box is selected, the name of the database will automatically appear in the Oracle login dialog box at start-up.

Entering the Login Name

In this field you have to enter a login name. If the **Use This Login Name** check box is selected, the login name will automatically appear in the Oracle login dialog box at start-up.

Entering a Password

In this field you have to enter a password. If the **Use Auto Login** check box is selected, the application automatically logs into the selected database at start-up. The Oracle login dialog box does not appear.

Checking Application History

By clicking the **Application History** button, you can open a chronological list of all software versions of the application. To get more details about each version (creation date, name of programmer, status, additional remarks), you have to click **+** next to the version number.

Activating Keep Alive

If the option **Keep Connection Alive** is selected, a message is sent to the database at regular time intervals to avoid idle connections from being closed by the firewall. These intervals can be set by you.

If the option **Try to Reconnect if Keep Alive Fails** is selected, the application will try a number of times to reconnect with the database.

If the option **Report Status in Database Everytime Keep Alive Timer Triggers** is selected, the status of the connection is reported in the database each time the Keep Alive Timer sends a trigger to send a Keep Connection Alive message.

If the option **Report Status of Tasks** is selected, the status of the tasks (ok or not ok) is reported to the database.

Testing the Oracle Connection

The **Test Oracle** button allows you to check the validity of the database name, login and username you entered.

If these data are valid, then the following message appears next to the **Test Oracle** button: ‘OK’.

If the login name or password is invalid, then a message box appears with the following message: ‘ORA-01017: invalid username/password; logon denied’.

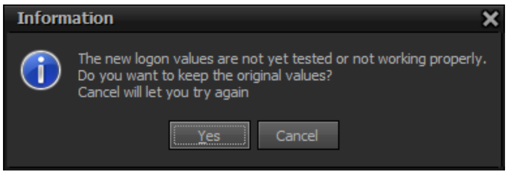
If the database name is invalid, then a message box appears with the following message: ‘ORA-12154:TNS: could not resolve the connect identifier specified’.

If you omit the password, then a message box appears with the following message: ‘ORA-01005: null password given; logon denied’.

If you do not enter a database name, login and username, then a message box appears with the following message: ‘ORA-12560: TNS: protocol adapter error’.

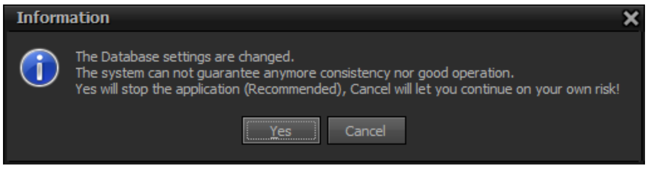
You can also check the software version of the application by clicking the **Test Oracle** button. If the software version is up-to-date, then the following message appears: ‘Current– The Current Version’. If the software version is outdated, then the following message appears: ‘Unknown Version Application! Please contact the EDP department.’

If you close the Settings window without testing the validity of the database name, login and username you just entered, then a message box appears.



If you click **Yes**, then the Settings window is closed and the original values are restored. If you click **Cancel**, then the Settings window does not close and you can test the values by clicking the **Test Oracle** button.

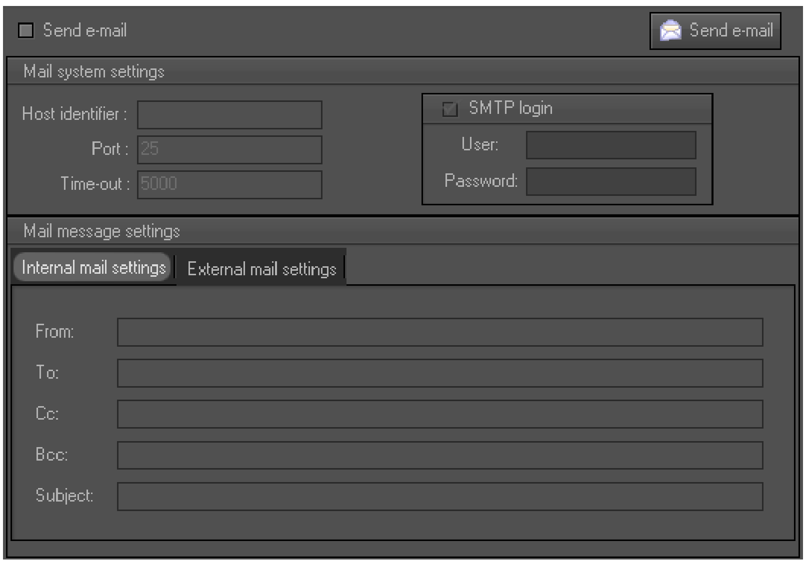
If you change the current database settings, test the connection and then close the Settings window, a message box will appear.



If you click **Yes**, the application is stopped and closed. A manual restart will be required. Click **Cancel** to continue.

2.6.7. E-Mail Options Tab

In case the application is capable of sending e-mail messages, the E-Mail Options tab will allow you to configure an e-mail account, enter the e-mail address of the default sender and recipients, and enter a default e-mail subject. If the application is not capable of sending e-mail messages, the settings in this tab cannot be used.



To be able to configure the e-mail account, you have to select the **Send E-Mail** check box. The fields in the Mail System Settings and Mail Message Settings group box become available.

Configuring an E-Mail Account

In the Mail System Settings group box you have to enter the IP address and port number of the SMTP server and specify a timeout. In the SMTP Login group box you can enter a user name and password.

Configuring a Default E-Mail Message

The Mail Message Settings group box contains two tabs: Internal Mail Settings and External Mail Settings.

The Internal Mail Settings tab can be used to configure a default e-mail message that will be sent to the EVS developers and the customer when an error occurs.

The External Mail Settings tab can be used to configure a default e-mail message that will be sent to the customer to notify him about an error. In each tab you have to enter the sender’s email address, the email address of the various recipients and a subject. It should be noted that this tab is not always used.

When you insert multiple e-mail addresses in any of the header fields, make sure you separate them by a comma.

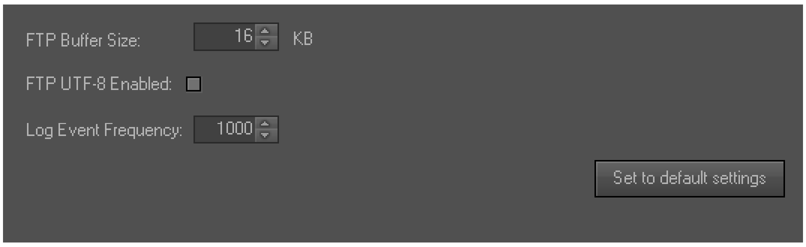
To test the settings and manually send an e-mail message, click the **Send Mail** button.

For the new settings to take effect, close and restart the application. Check the TOM.ini file in the installation folder of the application for the e-mail addresses and subject entered here.

```
[General]
TemporaryFiles.Text=edtTemporaryFilesDir
EmailWanted.Checked=0
Port.Text=25
HostID.Text=
TimeOut.Text=5000
SMTPLogin.Checked=1
MailUser.Text=
MailPasswd.Text=y1cWaD8bS1hdK17uHq8knw==
MailPasswdUnicode.Text=79CJGqDro/FCD6AsFhtZkw==
MailFrom.Text=
MailTo.Text=
MailCc.Text=
MailBcc.Text=
MailSubject.Text=
ExternMailFrom.Text=
ExternMailTo.Text=
ExternMailCc.Text=
ExternMailBcc.Text=
ExternMailSubject.Text=
cbSaveScreenDumpUnHandledErrors.Checked=1
cbSaveUnforcedErrors.Checked=1
cbSaveScreenDumphandledErrors.Checked=1
cbAutomaticLogin.Checked=0
cbUseknownDatabase.Checked=0
cbUseThisLogin.Checked=0
chkKeepConnectionAlive.Checked=0
chkTryToReconnect.Checked=0
```

2.6.8. FTP Tab

The FTP tab allows you to configure the transfers of the type FTP.



The FTP buffer size is the size of the FTP Send/Receive buffer used in case of FTP transfer. By default, this is set to '16'.

The **FTP UTF-8 Enabled** check box is an indication that UTF-8 support should be enabled for the FTP transfers. This is needed for some Linux FTP servers. By default, this check box is not selected.

In the **Log Event Frequency** field you can specify after how many events a log is displayed in the Log pane conveying the progress of the FTP transfers. By default, this is set to '1000'.

If you have modified the default settings, you can restore them by clicking the **Set to Default Settings** button. These settings have been configured in the Configurator.

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