

Elog 2010



Version 1.1.5
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Overview

Purpose: This guideline covers the usage of the Harley-Davidson Elog 2010 application. It demonstrates how to set up tests, enter and retrieve data, scheduling, and general usage.

Scope: The E-Log application digitally tracks the testing process and stores test data during Harley-Davidson engine and component testing. It allows users to quickly and easily locate test data. It was designed to be accessible by multiple users simultaneously, capable of grouping test data, scheduling tests, and automating report functions.

The Endurance Log (E-Log) is a MS Access© 2000-2003 database driven application. This allows quick data access and offers user flexibility.

Instructions: Each new test article will generate new database entries. Work orders, configuration & setup sheets, data files, and photos are also stored in a folder named after the work order. This allows ease in archiving and retrieval.

The test cell operator is the primary source for data entry. Most of the database set-up and configuration changes will be handled by the Test Engineer (or Coordinator) or the Development Engineer. The comment page captures the step by step testing process. The user enters testing comments, current cell, run number, dyno clock time, endurance time, and can attach any files associated with the test. This file may be any type. A significant event box may be checked for easier retrieval for important test events. E-log can be configured to automatically send off an email when a significant event comment is entered. This allows the test to be tracked more precisely. All entries can be sorted by any field for the users' convenience.

Details on data entry will be covered further in this documentation.

Please report program bugs to:

Jason Overmier

Jeff Bickle

Program Requirements:

- Windows 32 bit operating system (OLEDB requirement)
- .NET Framework 2.0 SP2
- Microsoft Word for spell check to work
- Microsoft Outlook for email
- SMTP open port for non-Outlook machines
- Active Directory access
- 'Windows and buttons' Appearance in 'Display Properties' set to 'Windows XP style' instead of 'Windows classic style' for best appearance.
- Read/Write permission to Elog's database directory and data directory

Program Installation:

Elog 2010 does not contain an installation file. It can be run off of the network drive. **Full Real/Write access is required for the Elog 2010 directory, the database directory, and the data directory.**

Elog 2010.exe.config contains settings that may need to be updated. The connection string should look similar to the example below but the UNC path may change:

```
<add name="Elog_2010.My.MySettings.ElogConnectionString"
connectionString="Provider=Microsoft.Jet.OLEDB.4.0;Data Source=&quot;\\hdmc.harley-
davidson.com\PDC\Data\DynoData\Test Logs\Elog_2010\Database\Elog.mdb&quot;;Jet
OLEDB:Database Password=;"
```

To enable/disable Elog for maintenance, changing the *ElogEnabled* setting in the config file.

```
<setting name="ElogEnabled" serializeAs="String">
<value>True</value>
```

Creating a desktop shortcut to Elog 2010.exe is recommended.

OPERATION:

Login Screen:

Upon first execution of Elog, the following screen will appear.



In the HD Login combobox enter your last name. Auto-completion of your name will happen if you are in the system. If you are not an active user of Elog, you will need to contact an Elog administrator. Elog administrators are listed by clicking the phone icon at them bottom right of the login screen.

The default password is 'elog'. If it is your first time logging in you should change your password so that it is no longer the default 'elog' password. This prevents other users from sending out emails under your name.

****Only active Elog users can log into Elog at the login screen.**

Menu:



Login



Close



Info



Help



Show Admins – If you are not an active Elog user, contact an admin for help.

Main Work Order Screen:

Elog 2010

Logout Overmier, Jason

Work Orders

Work Orders

Search By:

Cell:

WD:

EngineeringSN:

| Active | Cell | WD | EngineeringSN | DateCompleted | Type |
|--------|------|----|---------------|---------------|------|
|--------|------|----|---------------|---------------|------|

WO Status:

Comments | Overview | Contacts | Parts | Links | Files

Search Comments

Add Comment

Cell:

Run Number:

Dyno Clock Hours:

Endurance Hours:

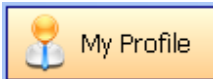
Significant Event

Above is what the main work order screen looks like when no work orders are present or you're not a contact on any work orders.

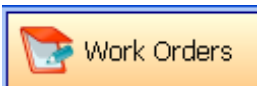
Menus:



Clicking *Logout* will bring you back to the login screen.



Clicking *My Profile* will take you to 'My Profile' screen.



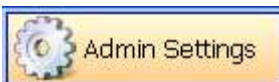
Clicking *Work Orders* will take you to the 'Work Orders' screen.



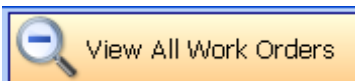
Clicking *Schedule* will take you to the 'Schedule' screen.



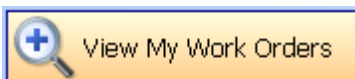
Clicking on *Programs* will display a drop down list of all external programs, web addresses, and folders.



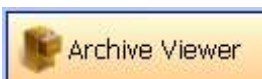
Clicking on *Admin Settings* will take you to the 'Admin Settings' screen.



If the magnifying glass has a minus sign in it then clicking it will show all work orders in Elog on the 'Work Orders' screen.



If the magnifying glass has a plus sign in it then clicking it will show work orders where you are listed as a contact on the 'Work Orders' screen.



Click on *Archive Viewer* to view old archived databases. Click on it again to return to the current database.

*Note: The archive being viewed must have the same password as the current database.

My Profile Screen:

My Profile

HD Login: overmij
Name: Overmier, Jason
Function: DSST
Location: PDC
Email Address: Jason.Overmier@harley-davidson.com
HD Phone: 414-465-6916
Mobile Phone:
Other Phone:
Old Password:
New Password:
Re-type New Password:

My Work Order Contacts

| WO | EngineeringSN | AutoEmail | Type | Order |
|----|---------------|-------------------------------------|---------------|-------|
| 1 | ESN1 | <input checked="" type="checkbox"/> | Test Engineer | 1 |

Here you can update an additional phone number for yourself, change your password, and view a list of work orders where you are a contact.

My Work Order Contacts table can be used to quickly change the *AutoEmail* setting for multiple work orders.

Work Orders Screen:

Comments Tab:

The screenshot shows the Elog 2010 interface. At the top, the user is logged out as Jason Overmier. The main area is titled "Work Orders" and contains a search section with fields for "Cell", "WO", and "EngineeringSN". Below this is a table of work orders:

| Active | Cell | WO | EngineeringSN | Type | DateCompleted |
|--------------------------|------|----|---------------|---------------|---------------|
| <input type="checkbox"/> | E1 | 1 | ESN1 | Test Engineer | |
| <input type="checkbox"/> | D3 | 3 | | Test Engineer | |

To the right of the table is a "WO Status:" panel with three buttons: "Start" (green play icon), "Complete" (grey stop icon), and "Activate" (blue refresh icon).

Below the work orders list is a section titled "1 - Example Work Order" with tabs for "Comments", "Overview", "Contacts", "Parts", "Links", and "Files". The "Comments" tab is active, showing a table of comments:

| Date | Cell | Name | RunNumber | DynoClockHours | EnduranceHours | Comment | FileLink |
|------------------|------|-----------------|-----------|----------------|----------------|--|----------|
| 08/26/10 1:12 PM | | Overmier, Jason | | 0 | 0 | SCHEDULE: Cell=E1, Stage=Que, Status=Ready To Run, Priority=1, Shift=1, DueDate=08/30/10 | |
| 08/26/10 1:08 PM | | Overmier, Jason | | 0 | 0 | SCHEDULE: Cell=E1, Stage=Que, Status=Ready To Run, Priority=1, Shift=1, DueDate=08/30/10 | |

Below the comments table is a "Search Comments" field. Underneath is the "Add Comment" section, which includes a "Spell Check" button, a "Cell" dropdown menu, and input fields for "Run Number", "Dyno Clock Hours", and "Endurance Hours". There is also a checkbox for "Significant Event". At the bottom of this section are three buttons: "Add File", "Submit Comment", and "Clear".

The comments tab is the most used tab for a work order. The comments are used to document the testing phase from start to finish. In order to submit a comment, at least one of the fields needs to be filled out which includes the comment box, or dyno clock hours, or endurance hours, or attached file. Click *Submit* will add the comment to the selected work order.

Mechanic Entry Best Practice:

In an effort to reduce potential data processing errors, improve data quality and to reduce any ambiguity or confusion for all Elog users, please use the following as a best practice when writing comments and entering run numbers:

- Avoid entering run numbers in the comments field.
- Enter run numbers in the run number column when starting (SOT) and ending tests (EOT).
- Subsequent comments within a prolonged run, such as durability, need not have a run number, but could if desired.
- When starting a test (SOT), and stopping a test (EOT) separate comments into individual entries.
- In the “Comments” field, when starting or ending a test, enter the test description only.
Example: SOT 0-25hr Endurance, EOT 25-hr HP/Blowby, SOT 0-hr Lube, 100-hr Oberg SOT 100-125 hr Endurance, etc.
- Mark a comment as “Significant” (using the check-box) when the following occurs: Major failure of either engine or test cell equipment, problems with equipment or cell that have caused significant delays (more than 2-hours), start of work order, end of work order


There are certainly exceptions to these best practices, but we are asking for your help in reducing the confusion of interpreting run numbers and comments entered into Elog. This will assist Test Engineers, Customers/Requestors in interpreting the entered information and ultimately improving overall efficiency and quality of work.

This document is intended to be a living document that can be edited when if and when necessary.

If you, as an Elog user, feel that this document needs updating or corrected, please email the TE group so that all suggestions may be considered.

Overview Tab:

| | | | | | |
|----------------------|--------------------|----------|-------|-------|-------|
| Comments | Overview | Contacts | Parts | Links | Files |
| Test Name: | Example Work Order | | | | |
| Work Order #: | 1 | | | | |
| Engineering Order #: | Example | | | | |
| Date Submitted: | 12/02/10 | | | | |
| Date Completed: | | | | | |
| Engineering SN: | ESN1 | | | | |
| Crankcase #: | 2 | | | | |
| Model: | | | | | |
| Model Year: | 2010 | | | | |
| Active: | False | | | | |



Contacts Tab:

| Comments | Overview | Contacts | Parts | Links | Files | | | |
|---------------|---------------|-----------------|----------|----------|--------------|-----------|------------|-------------------|
| Type | Contact Order | Name | Function | Location | PhoneHD | PhoneCell | PhoneOther | Email |
| Test Engineer | 1 | Overmier, Jason | DSST | PDC | 414-465-6916 | | | Jason.Overmier@ha |

Email (Double click on contact to email):

To:

Contact Name: Type: Contact Order Priority: Auto Email

The contacts tab is used to see all the contributors to a work order and to send emails to them regarding the current selected work order. If you are not listed on a work order and would like to be, for instance to add comments, then you can add yourself to the contacts list at the bottom of this tab. The *Contact Order Priority* is used to convey the contact order in case a contributor is not available.

Parts Tab:

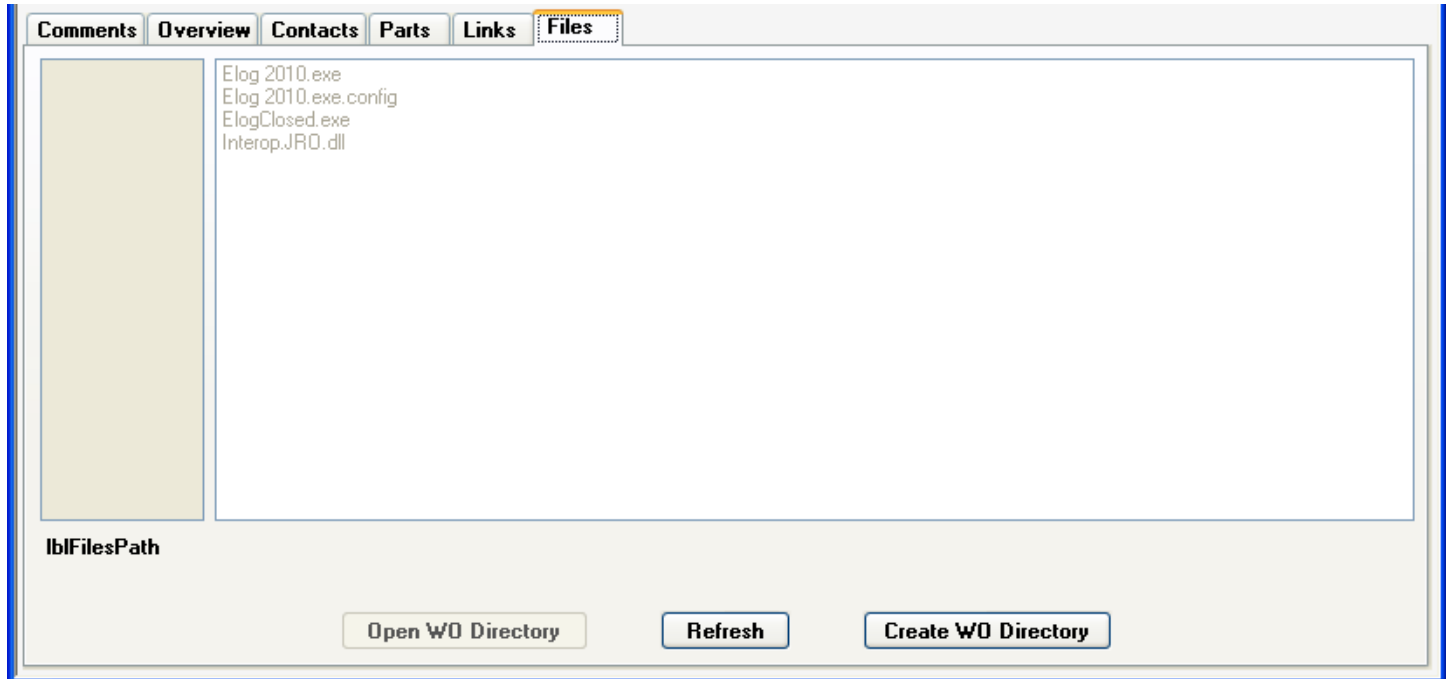
The screenshot shows the 'Parts' tab in a software application. At the top, there are navigation tabs: Comments, Overview, Contacts, **Parts**, Links, and Files. Below the tabs is a table with the following columns: Date, Cell, Name, EngineHours, PartReplaced, TIRRequested, TIRWritten, and Comments. The table area is currently empty. Below the table, there are several input fields: a dropdown menu for 'Cell', a text box for 'Engine Hours', a text box for 'Part Replaced', and two checkboxes for 'TIR Requested' and 'TIR Written'. Below these fields is a large text area labeled 'Comment:'. At the bottom right, there are two buttons: 'Submit Part' and 'Clear'.

Links Tab:

The screenshot shows the 'Links' tab in the same software application. At the top, there are navigation tabs: Comments, Overview, Contacts, Parts, **Links**, and Files. Below the tabs is a table with the following columns: Title and Path. The table contains one row with the following data: Title: test, Path: \\hdmc.harley-davidson.com\PDC\Data\DynoData\Test Logs\Elog 2010\Data\1\Query.rtf. Below the table, there is a dropdown menu labeled 'Link Title:'. Below the dropdown menu is a 'Select File' button and a text box. At the bottom left, there is a 'Submit' button.

The links tab is used to show all important test related links needed to do the work order. Open a link by double clicking on a row. The *Link Title* combo box is populated by looking at all previously used titles.

Files Tab:



The files tab is used to view all the files in the current work order directory. File filters can be applied to view specific file types or files containing a keyword. To quickly add files to a work order, drag and drop the files onto the file viewer list box.

If a work order does not have a work order directory created yet for it, the directory needs to be created first by clicking *Create WO Directory*. This will then enable the file viewer.

Schedule Screen:

Schedule

Filter table by Wing: All Wings

Filter table by Stage: All Stages

| Cell | Shift | Priority | WO | Stage | Status | DateSubmitted | DateStarted | DateDue | Description | Duration |
|------|-------|----------|----|-------------|--------------|------------------|-------------|----------|-------------|----------|
| D3 | All | 2 | 3 | In Progress | Running | 08/26/10 1:10 PM | | 08/28/10 | | |
| E1 | 1 | 1 | 1 | Que | Ready To Run | 08/26/10 1:08 PM | | 08/30/10 | | |

Memo Edit Schedule Cell Calibration

Filter memos by wing: All Wings

Submit

C Wing

D Wing Memo

E Wing Important Info

The table shows work orders currently on the schedule. The table has filters to show work orders in specific wings or stages.

Memos can be written for each wing by Elog admins to convey important wing information.

Edit Schedule Tab (Elog admins only):

The screenshot shows the 'Update Work Order To Schedule' form. It features several dropdown menus for 'Cell' (D2), 'Shift' (All), 'Work Order' (3), 'Stage' (In Progress), 'Status' (Running), and 'Priority' (2). A 'Date Due' dropdown is set to 'Saturday, August 28, 20'. Below these are two text input fields for 'Description' and 'Duration'. At the bottom, there are four buttons: 'Submit', 'Clear', 'Deactivate Finished WO', and 'Delete Schedule Entry'.

A cell is not required for a schedule entry. When a schedule entry is complete, click *Submit* to add it to the schedule table. To edit a schedule entry, just double click on the row. *Deactivate Finished WO* removes the work order from the schedule table and deactivates the work order. *Delete Schedule Entry* removes the entry from the schedule.

Cell Calibration Tab:

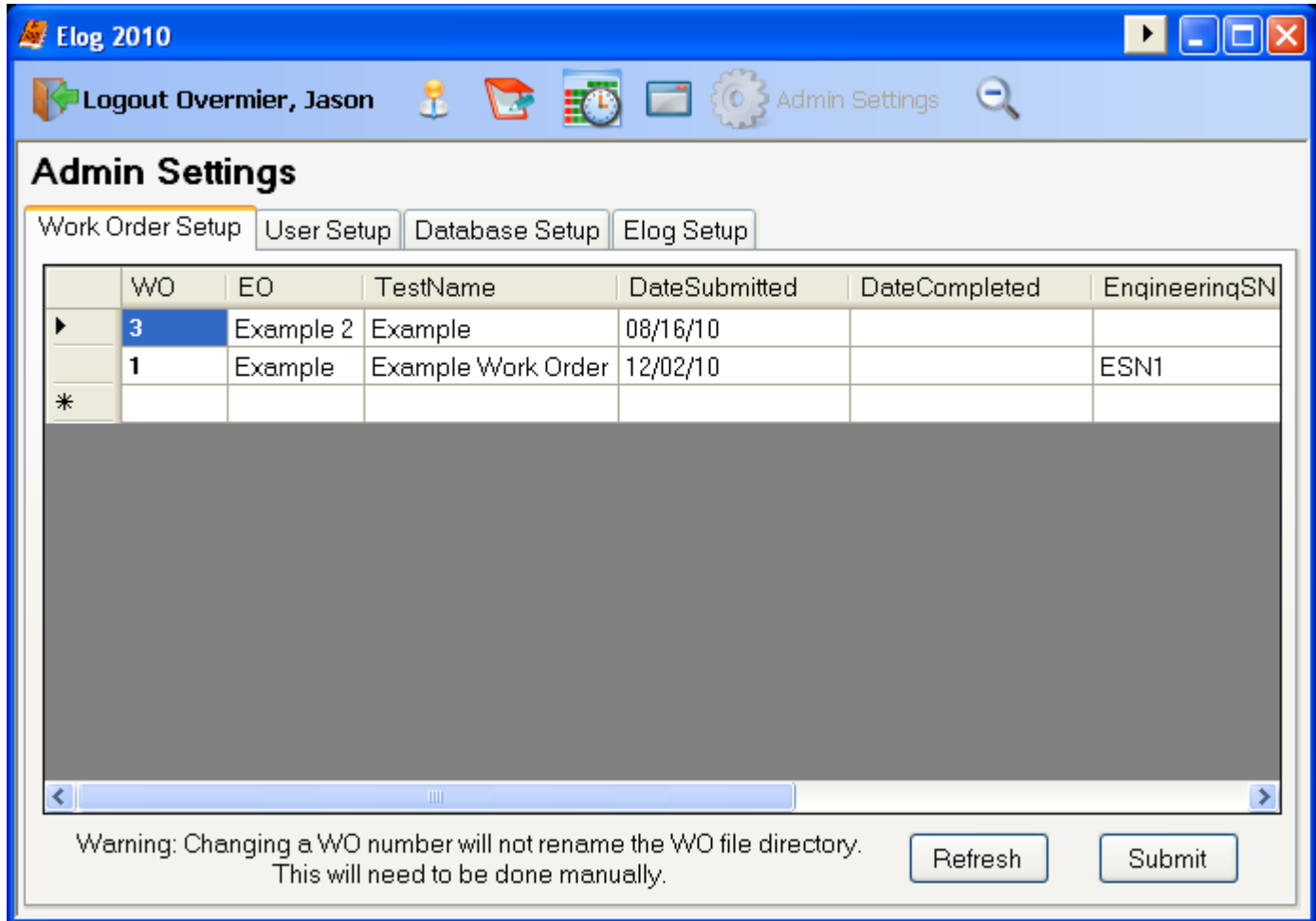
The screenshot shows the 'Cell Calibration' tab with a table of cell calibration data. The table has columns for 'Cell', 'Wing', 'DateLastCalibrated', 'CalibrationDueDate', and 'Memo'. The 'Cell' column is highlighted in blue. A vertical scrollbar is on the right side of the table. Below the table is an 'Update Calibration' button.

| Cell | Wing | DateLastCalibrated | CalibrationDueDate | Memo |
|-------|------|--------------------|--------------------|------|
| C1A | C | | | |
| C1B | C | | | |
| C2 | C | | | |
| C3 | C | | | |
| C3(1) | C | | | |
| C3(3) | C | | | |
| C4 | C | | | |
| C4(1) | C | | | |
| C4(2) | C | | | |

This tab is useful to keep track of when a cell was last calibrated and more importantly when it is due again for calibration.

Admin Settings Screen:

Work Order Setup Tab:



The screenshot shows the 'Admin Settings' window for 'Elog 2010'. The user is logged out as 'Overmier, Jason'. The 'Admin Settings' gear icon is visible in the top navigation bar. The 'Work Order Setup' tab is selected, showing a table with columns: WO, EO, TestName, DateSubmitted, DateCompleted, and EngineeringSN. The table contains two rows of data. A warning message is displayed at the bottom of the window, and 'Refresh' and 'Submit' buttons are present.

| | WO | EO | TestName | DateSubmitted | DateCompleted | EngineeringSN |
|---|----|-----------|--------------------|---------------|---------------|---------------|
| ▶ | 3 | Example 2 | Example | 08/16/10 | | |
| * | 1 | Example | Example Work Order | 12/02/10 | | ESN1 |

Warning: Changing a WO number will not rename the WO file directory.
This will need to be done manually.

Refresh Submit

Work orders can be deleted by selecting an entire row and pressing the delete button on the keyboard. To save the change click the *Submit* button. **Warning:** This will delete the work order and all Comments, Links, and Contacts. The work order data directory will remain.

Work Order Setup Process:

In order to set up a new work order, you must have admin rights in Elog. Once you have admin rights, click on the *Admin Settings* menu button and go to the *Work Order Setup* tab.

In the table enter the known fields. Every entry is required to have a unique work order number containing only integers. Once you have finished entering the fields, click *Submit* at the bottom right. This will update the database so that the work order will be visible to all other users. You will also be added as a Test Engineer contact for the work orders that you added/modified.

Clicking refresh will retrieve all the work orders from the database. Any unsubmitted entries that you have made will be lost.

Once you have added the new work order, click on *Work Orders* menu button to continue setting up the work order.

The *Contacts* tab is where you can add the requestors, mechanics, and support people that will be contributing to the work order.

The *Files* tab is where you can create the work order directory and drag n' drop files that pertain to the work order. Files that you drag n' drop will be copied over to the work order data directory.

After files have been added to the work order data directory, it is then time to add links to the important documentation. Go to the *Links* tab. Select a Link Title from the drop down box or type in a new title. Select a file from the work order directory. If you would like to add a website address, then paste the hyperlink into the text box to the left of the *Select File* button. Once you are done click *Submit* and the new entry will appear on the Links table above.

Once the work order setup is complete, it is now time to activate the work order. After the work order is listed as active then the work order should be added to the schedule where it will be assigned a cell.

User Setup Tab:

Admin Settings

Work Order Setup **User Setup** Database Setup Elog Setup

| HDUser | Name | Function | Location | PhoneHD | PhoneCell | PhoneOth |
|---------|--------------------|----------|----------|--------------|-----------|----------|
| beersj | Beers, Jeff | ENGINEER | PDC | 414-465-4226 | | |
| bicklej | Bickle, Jeff | DSST | PDC | 414-465-4625 | | |
| bishopb | Bishop, Brad | ENGINEER | JUNEAU | 414-343-4962 | | |
| buckhoe | Buckhouse, Eric | ENGINEER | JUNEAU | 414-343-8468 | | |
| burakos | Burakowski, Steven | ENGINEER | PDC | 414-465-4291 | | |
| carlinm | Carlin, Michael | ENGINEER | PDC | 414-465-4196 | | |
| chiappp | Chiappetta, Peter | ENGINEER | PDC | 414-465-4292 | | |
| deesj | Dees, Jesse | ENGINEER | PDC | 414-465-4953 | | |
| enrighb | Enright, Bern | ENGINEER | PDC | 414-465-4131 | | |
| finkl | Fink, Liisa | ENGINEER | PDC | 414-465-7679 | | |
| ruschs | Rusch, Sean | ENGINEER | PDC | 414-465-4158 | | |
| pricem | Price, Michael | MECHANIC | PDC | 414-465-4546 | | |
| kleinhk | Kleinhaus, Ken | MECHANIC | PDC | 414-465-4777 | | |

The default user password is: elog

Reset User Password Refresh Submit

Color Code:

- Green – Active non-admin user with personal password
- Blue – Active admin user with personal password
- Gold – Active user with default password
- Orange – Active user with no password (reset these users to the default password to prevent Elog errors)

Automatic User Info Updating:

When the submit button is pressed, any changed or new entries will be entered into the database. After that is done, a background process will run that pulls all active users info such as the name, location, phone numbers, and email address from active directory. This can take several minutes.

*Demo mode must be False for automatic user info updating to run. Demo mode setting is found under *Elog Setup* tab in the settings table.

**Only active Elog users can log into Elog at the login screen.

Adding New Users:

Adding new users is easy. All you need to do is enter their Harley-Davidson user ID into *HDUser*, add their *Function*, and check the *Active* box. Then click *Submit*.

*It is not recommended to delete users. Deletion of a user will delete all comments that the user has entered on the work orders.

Database Setup Tab:

The screenshot shows the 'Admin Settings' window for 'Elog 2010'. The 'Database Setup' tab is selected, showing several tables with their columns and data. Each table has an 'Update' button to its right.

Table: Wings

| Wing | ScheduleMemo |
|------|--------------|
| C | C Wing |
| D | D Wing Memo |

Table: Cells

| Cell | Wing | DateUpdated | DateLastCalibrated | CalibrationDueDate | Memo |
|------|------|-------------|--------------------|--------------------|------|
| C1A | C | | | | |
| C1B | C | | | | |

Table: Stages

| Stage |
|-------------|
| Complete |
| In Progress |

Table: Status

| Status |
|------------------|
| Cell Calibration |
| Cell Prep |

Table: Shifts

| Shift |
|-------|
| 1 |
| 2 |

Table: Contact Type

| ID | Type |
|----|---------------|
| 1 | Test Engineer |
| 2 | Requester |

Database Setup tab is used to modify various tables in the Elog database. Caution: Removing entries may cause Elog errors if they are associated with work orders in the database.

Elog Setup Tab:

The screenshot shows the Elog 2010 Admin Settings window with the Elog Setup tab selected. The window title is "Elog 2010" and the user is "Logout Overmier, Jason". The Admin Settings menu includes Work Order Setup, User Setup, Database Setup, and Elog Setup. The Elog Setup section is divided into Programs Menu Setup, Elog Settings, and Elog File Filters.

Programs Menu Setup:

| Title | IsAdminProg | Path |
|---------------|--------------------------|---|
| Calc | <input type="checkbox"/> | \\hdmc.harley-davidson.com\PDC\Data\DynoData\Test Logs\Endurance |
| Cell Time | <input type="checkbox"/> | \\hdmc.harley-davidson.com\PDC\Data\PT\TST_EVAL\Administration\Te |
| Convert | <input type="checkbox"/> | \\hdmc.harley-davidson.com\PDC\Data\DynoData\Test Logs\Endurance |
| Database Link | <input type="checkbox"/> | \\hdmc.harley-davidson.com\PDC\Data\DynoData\Test Logs\Elog 2010\ |

Elog Settings:

| Setting | Value |
|--------------------|----------------------------|
| AutoEmail | True |
| ContactPriorityMax | 6 |
| DataDirectory | \\hdmc.harley-davidson.com |
| DemoMode | True |
| ElogCloseTimer | 30 |

Elog File Filters:

| DisplayOrder | Title | Pattern |
|--------------|------------|---------------|
| 0 | All | ** |
| 1 | Word Docs | *.doc |
| 2 | Excel | *.xls |
| 3 | PDF | *.pdf |
| 4 | -Endurance | *_endur_*.pdf |

Database Tools: Compress & Repair DB

Archive WO's older than: 08/26/09

Buttons: Update Programs, Update Settings, Update File Filters, Change Data Directory, Archive DB, Archive Viewer

Programs Menu Setup:

This table is where you can add, modify, and remove programs that are listed under the *Programs* menu. Right click on a row to add a file or folder path. *IsAdminProg* should be checked if the link is only for admins meaning non-admins will not see that option. Pasting hyperlinks into the path cell is also valid. To delete an entry, select the entire row then press the delete button on your keyboard. If a program in the *Programs* menu is grayed out then the path is invalid.

Elog Settings:

This table is where all Elog's settings are kept. Do NOT delete any entries. Modifying these values may be useful.

****CAUTION MUST BE USED IN THIS TAB. REMOVING ELOG SETTINGS WILL CAUSE ELOG ERRORS.**

List of Settings and Descriptions:

| Setting: | Default Value: | Description: |
|---------------------|----------------|--|
| AutoEmail | True | If enabled, then significant events will send out an auto email to all contacts on that work order that have auto email enabled. |
| ContactPriorityMax | 6 | 1 to value. Contact order on the Contact tab. |
| DataDirectory | | Directory where the work orders data folders are kept. |
| DemoMode | False | If enabled, auto personnel info retrieval from active directory will not run. |
| ElogCloseTimer | 30 | When Elog is disabled through the config file, any users currently using Elog will receive a message saying they have xx seconds before Elog closes. |
| ElogEnabled | True | Not implemented |
| EmailEnabled | True | If enabled, emails sent out using Elog will be sent, otherwise a message saying that email has been disabled will be shown. |
| PersonnelUpdate | | Date of last auto personnel info retrieval from active directory. |
| SchedulePriorityMax | 10 | 1 to value. Schedule screen, Edit Schedule tab, Priority box. |
| ScheduleWarningDays | 2 | Turns the due date yellow if a work order is due within xx days on the schedule screen. |
| WOTitleFlashWarning | True | If enabled, The title will flash "Start Work Order" on the Work Order screen if the work order is on the schedule and hasn't been started yet. This is a visual reminder for the mechanics to record the start of the work order by pressing the start button. |

Elog File Filters:

This table shows all the file filters available to the user on the *Files* tab on the *Work Order* screen.

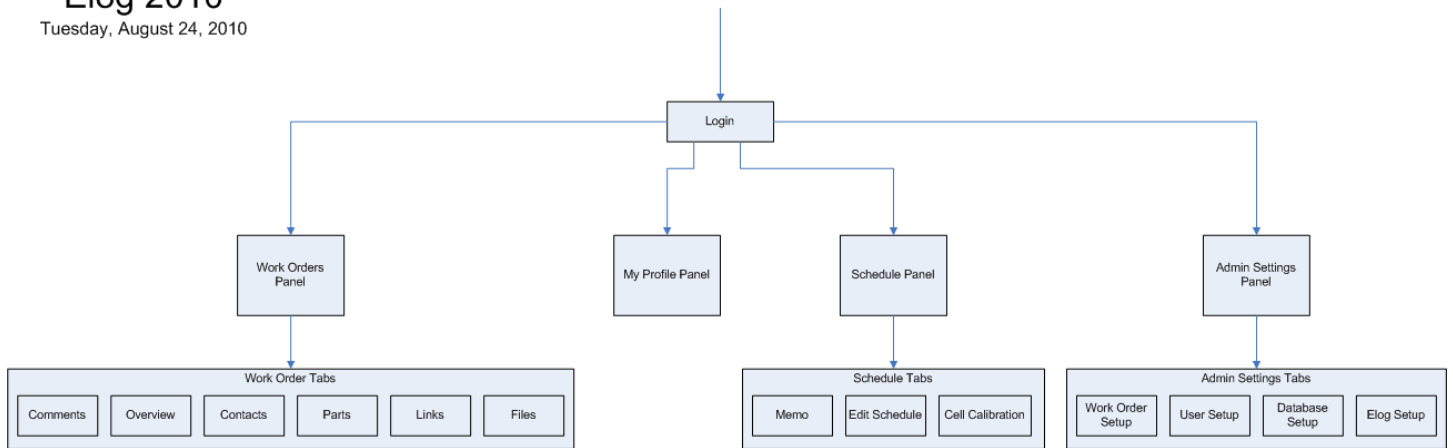
Database Tools:

Compress & Repair DB – This does maintenance on the current database which can improve performance and reliability of the database.

Archive DB – This archives all completed work orders older than the date selected and puts the archived database in the |application folder|\Database\Elog <date>.mdb. It then removes all archived work orders from the current database.

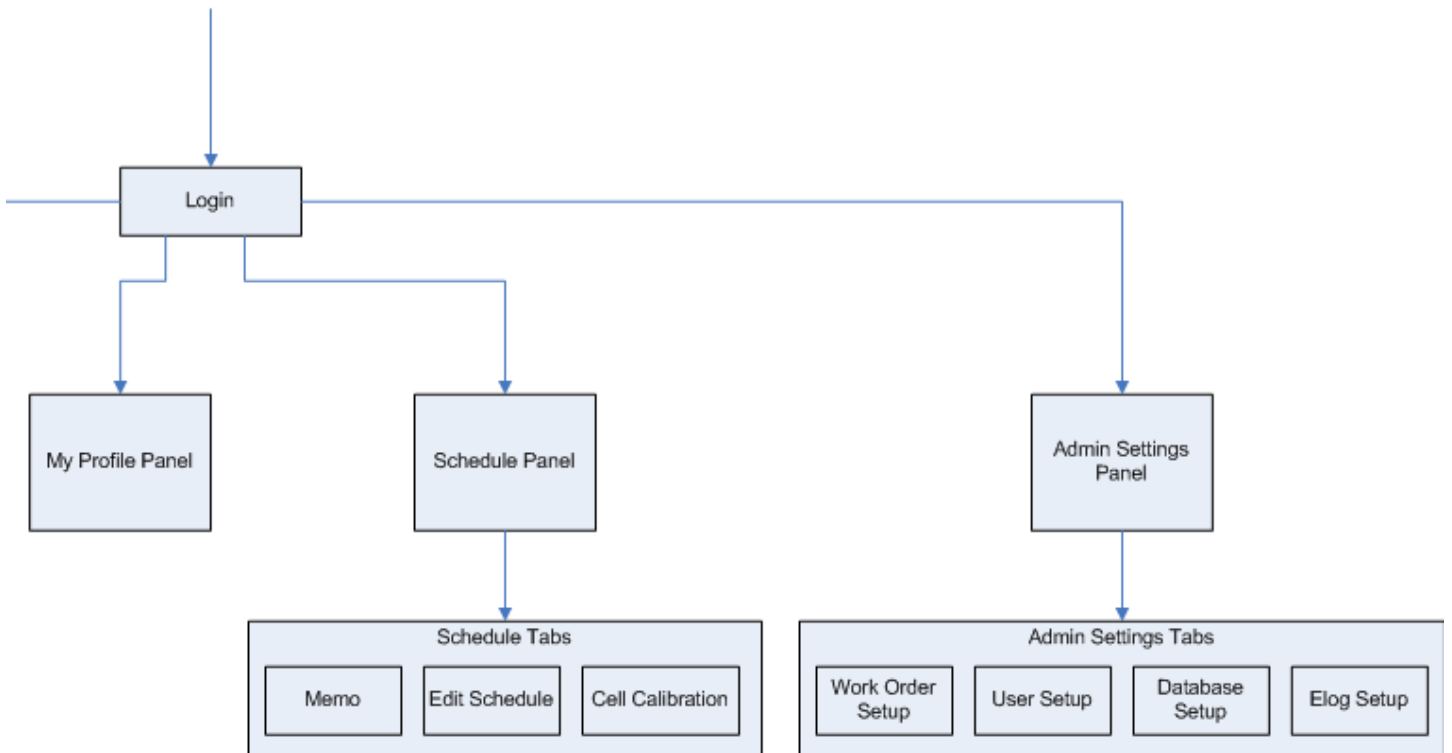
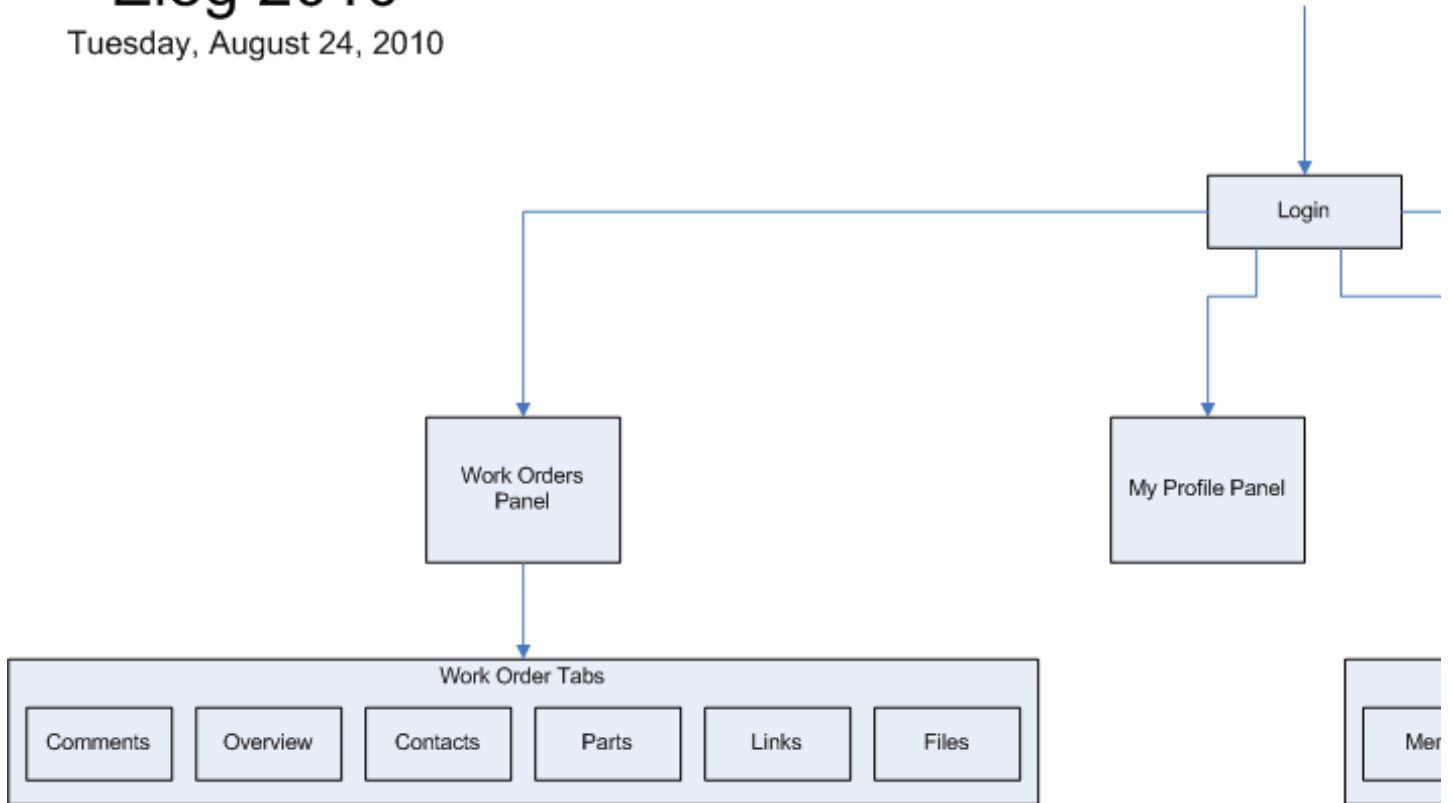
Flowchart:

Elog 2010
Tuesday, August 24, 2010



Elog 2010

Tuesday, August 24, 2010



Database Schema:

