

eFORMz Mini-Manual

Logging

Minisoft® eFORMz™

Version 10.0

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eFORMz 10.0 - January 2014

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- You may not: (a) allow access to or use of the Product to anyone outside of your organization; (b) decompile, reverse engineer, decrypt, disassemble, or otherwise attempt to copy or replicate the source code; (c) modify or translate those portions of the Product that are provided in an object or source code form, or alter, merge, modify, reverse engineer or adapt the Product in any way including disassembling or decompiling; (d) copy, loan, rent, lease or sublicense, assign, convey, sell, mortgage, pledge, dispose or in any other manner transfer to a third-party any part of or all of the Customer's rights and obligations under this Agreement or in the Product; or (e) otherwise copy, distribute, rent, loan, disseminate, publish, sell or transfer any portion of the Product in any way inconsistent with or contrary to the terms and conditions of the Agreement.
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- MINISOFT retains and reserves all rights to the Product. Nothing contained herein shall be deemed to convey to the Customer any title to, or an ownership interest in, the Product or any of the intellectual property rights contained in the Product. Upon termination of this Agreement, all rights granted to the Customer herein shall automatically revert to MINISOFT.

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The license grants made hereunder shall automatically terminate on the date of any breach by the Customer of any of the terms and conditions of this Agreement. In any such termination, you shall discontinue using the Product. You further agree to return the Product to MINISOFT or destroy all components of the Product and to certify in writing that the Product is no longer in use and that you have kept no copies of the Product. In any such termination of the license grants, none of MINISOFT's rights in law or equity shall be barred, discharged, released, or otherwise impaired by such termination, and MINISOFT reserves all such rights described herein.

C. Confidential Information

The Product also contains MINISOFT's commercially valuable, proprietary and confidential information and trade secrets (collectively "Confidential Information"). You are obligated to preserve and hold in confidence any Confidential Information and may not use any of it except in accordance with the terms and conditions of this Agreement. Confidential Information shall not include what is already public at the date of its disclosure or what later becomes lawfully public through no fault or responsibility of the Customer.

D. Limited Warranties and Limitations on Damages and Remedies.

- Only the limited warranties expressly described in this section are made to the Customer purchasing this Product. No warranty of any kind, whether express or implied, is made to any third-party or other transferee or successor of the Customer.
- MINISOFT warrants that it has the right to grant the licenses contained in this Agreement.
- MINISOFT warrants that this product will execute its programming instructions when properly installed on a properly configured computer for which it is intended. MINISOFT makes no warranty of any kind, implied or express, that the Product will meet Customer's requirements or that the Product will be uninterrupted or error-free.
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- MINISOFT's only obligation, liability and/or remedy, with respect to the warranties set forth in this Agreement shall be one of the following, which MINISOFT shall have sole discretion to choose: (1) as described above, to provide replacement media (whether in the form of the current release or otherwise) for the Product; (2) to replace, without charge, the Product with a functionally equivalent software product; or (3) to refund the applicable license fees paid to MINISOFT by Customer.

These are the sole and exclusive remedies for any breach of warranty.

6. MINISOFT shall have no obligation, liability or any other kind of responsibility for the costs of restoring any destroyed or defective data, installation of replacement media, or software conversion work made necessary by replacement media, even if MINISOFT had been specifically informed by Customer of the possibility or probability of any such consequences. During the ninety (90) days warranty period for the media, MINISOFT will replace, without charge, on an exchange basis, any media which is not as warranted. Customer must return the defective item postpaid to MINISOFT, postmarked within the time period stated above. Customer must either insure the defective item being returned or assume the risk of loss or damage in transit. Any claim under the above warranty must include a copy of Customer's receipt or invoice or other proof of the date of delivery.

7. Year 2000 Warranty. MINISOFT warrants that the Product will accurately process date/time data (including, but not limited to, calculating, comparing, and sequencing) from, into, and between the twentieth and twenty-first centuries, and the years 1999 and 2000 and leap year calculations, in accordance with the Product's documentation BUT ONLY to the extent that other technology and systems (e.g., software and operating systems, hardware and firmware) used in combination with the Product properly exchanges date/time data with it. In addition to the limitations of liability and remedies described above in this Section, the Year 2000 warranty made herein is made only for ninety (90) days after the date of delivery of the Product and only if any noncompliance is discovered and made known to MINISOFT in writing within such ninety (90) days. The Year 2000 warranty expires after such ninety (90) day period and shall not extend to any events occurring after the expiration date.

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A customer that has purchased annual support entitles them to any and all software updates for their licensed product(s) as well as technical support via phone and email. Software Updates are available from our web site, www.minisoft.com. Included with the purchase of support is the use of our Toll Free 800 number, and support email. Days and Hours of support coverage are Monday through Friday 7:30am (Pacific) until 5:00pm (Pacific). When support is purchased or renewed, an update may be downloaded from the Minisoft Website. In cases where support has expired, back-support is charged to bring the support account current. Any supplemental software code provided to you as part of the Support Services shall be considered part of the SOFTWARE PRODUCT and subject to the terms and conditions of this License Agreement.

G. Miscellaneous

1. Governing Law. This Agreement is made for the sole benefit of the parties hereto, and there are no third party beneficiaries to this Agreement. This Agreement shall be interpreted under the laws of the State of Washington, notwithstanding the application of any jurisdiction's choice-of-law rules to the contrary.

2. Independent Contractors. No agency, partnership, joint venture, or employer-employee relationship is created hereby, and neither party nor any of its agents or employees shall have any authority of any kind to bind the other party in any respect whatsoever. Each party is an independent contractor to the other party.

3. No Assignment by Customer. This Agreement shall be binding upon and inure to the benefit of MINISOFT and any successors and assigns. Customer shall have no right to assign or otherwise transfer its rights or obligations under this Agreement except with the prior written consent of MINISOFT, which MINISOFT in its sole discretion and for any reason or no reason provide or withhold.

4. Entire Agreement. This Agreement contains the complete understanding between the parties and shall as of the date the Product is first installed supersede all other agreements, whether they are written or oral, between the parties concerning the particular subject matter. The language of this Agreement shall for all purposes be construed as a whole, according to its fair meaning, not strictly for or against either party, and without regard to the identity or status of any person who drafted all or any part of it. No purchase order or any other purchasing instruments issued by Customer, even if such purchase order or other purchasing instrument provides that it takes precedence over any other agreement between the parties, shall be effective to contradict, modify, delete from or add to the terms of this agreement in any manner whatsoever.

5. Severability. In the event that any one or more provisions of this Agreement is found by a court of competent jurisdiction to be unenforceable or invalid, then notwithstanding any such finding the remainder of this Agreement shall remain in full force and effect, and such provision that is found to be unenforceable or invalid shall be deemed severed.

6. Waiver. Neither party's right to require performance of the other party's obligations hereunder shall be affected by any previous waiver, forbearance, or course of dealing, nor shall any waiver or forbearance or other course of dealing at any time with respect to any term or condition in this Agreement be effective unless evidenced in writing signed by the waiving party as to such waiver, forbearance or other course of dealing. No waiver or modification of this Agreement or any covenant, condition or limitation herein contained shall be valid and no evidence of waiver or modification shall be offered or received in evidence in any proceeding, arbitration or litigation between the parties hereto arising out of or affecting this Agreement or the rights or obligations of the parties hereunder, unless such waiver or modification is in writing duly signed by both parties.

7. Headings, Sections - The various headings in this Agreement are inserted for convenience only and shall not affect the meaning or interpretation of this Agreement or any Section or provision hereof.

8. Disputes; jurisdiction and venue. Customer and MINISOFT consent to personal jurisdiction, subject matter jurisdiction, and venue in the state and/or federal courts sitting in King or Snohomish Counties, State of Washington. Any action relating to this Agreement must be brought in the state or federal courts located in King or Snohomish County, Washington.

9. Attorney's Fees. In the event legal action is brought by either party to enforce any of the provisions of this Agreement, the prevailing party shall recover its reasonable attorney's fees, costs, and expenses, including but not limited to fees, costs and expenses of collecting any judgment.

10. Export. The export of this product is restricted by U.S. export regulations.

11. GOVERNMENT RESTRICTED RIGHTS. The Software Product and documentation are provided with restricted rights. Use, duplication or disclosure by the Government is subject to restrictions as set forth in subparagraph (c) (2) (ii) of the Rights in Technical Data and Computer Software clause at DFARS 252. 227-7013 or subparagraphs (c) (1) and (2) of the Commercial Computer Software-Restricted Rights at 48 CFR 52.227-19, as applicable. Contractor/manufacturer is MINISOFT, INC., 1024 FIRST STREET, SNOHOMISH, WASHINGTON, 98290, U.S.A.

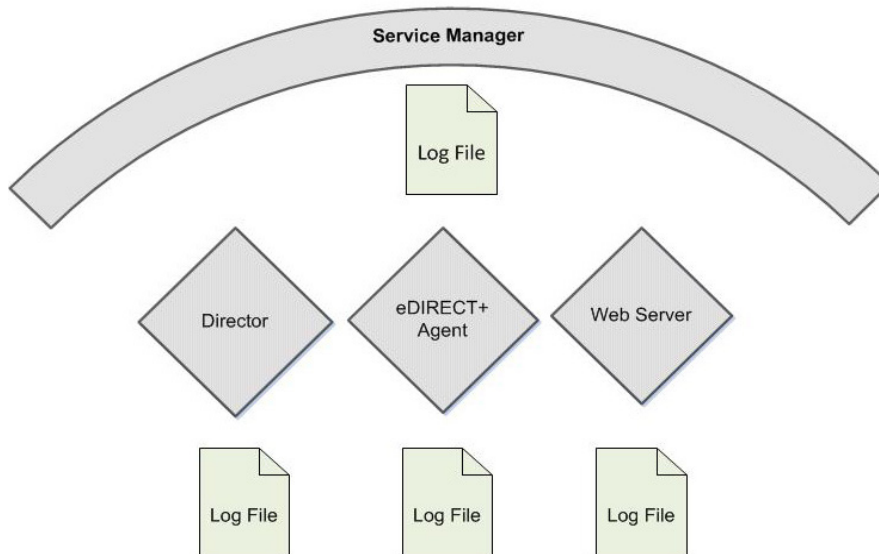
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Logging From the Service Manager

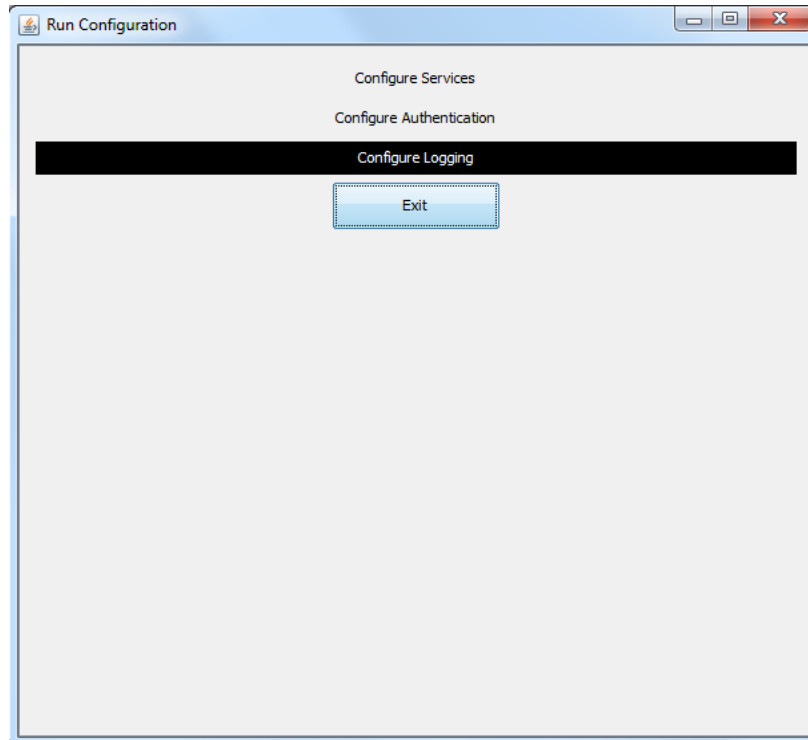
With eFORMz 9.0, logging can be controlled from the Service Manager, the Director, the Print Monitor, the eDIRECT+ Agent and the Web Server. The Service Manager is an operating system independent way of managing the background processes of the eFORMz 9.0 product suite. The Director Service, the eDIRECT+ Agent and the Web Server can all be started and stopped by the Service Manager.



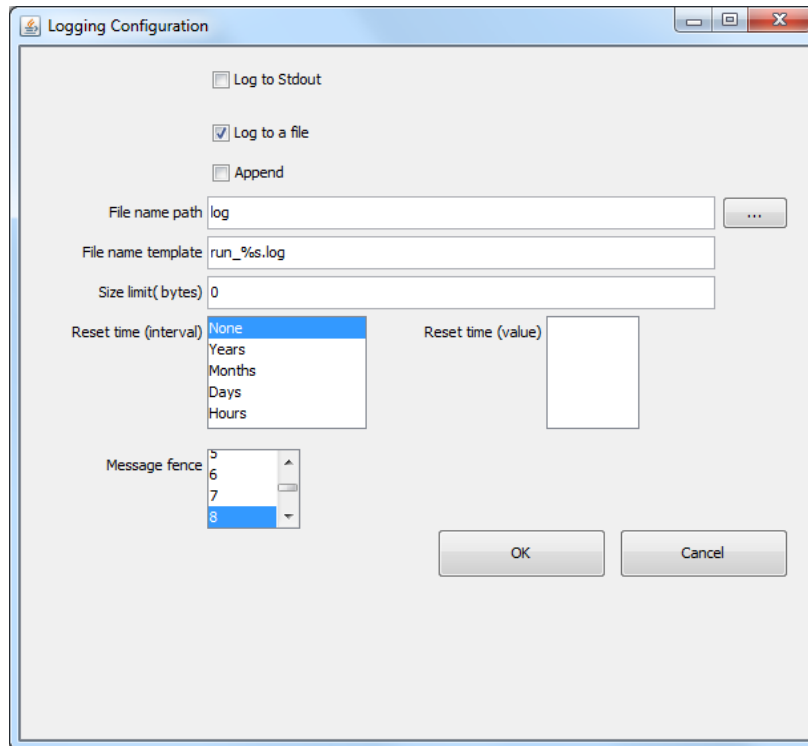
Configure Logging

The *Configure Logging* option from the Manager Configuration Menu controls the logging settings for the Service Manager.

1. From the Manager Configuration Menu, select the *Configure Logging* option.



- The *Logging Configuration* dialog box will display. Make any necessary modifications.



Options:

Log to Stdout

When checked, this will log information to a queue print file.

Log to a File

When checked, this will write log information to a file.

Append

Permits log messages to be appended to the log file.

File Name Path

The directory in which to write the log file.

File Name Template

A file name template used for the log file. Using the string sequence "%s" in the log file name will result in the current time stamp being substituted for the file name. For example *run_%s.log* will create a file named "run_20121226105858355.log" at 10:58 am on December 26th, 2012. If a wildcard character sequence, such as "%s", is not used when naming the log file, rolling the log file will result in the filenames having a three digit number appended to the end of the name to prevent overwriting an existing file.

Size limit (bytes)

Size in bytes of the log file where a new write will result in rolling. The action of closing the current log file and opening a new log file is called "rolling" the log file.

Reset time (interval)

The type of time interval that the reset time value uses. Options include: *Years*, *Months*, *Days* and *Hours*. The default value is *None*.

Reset time (value)

The numeric value of reset time intervals to allow for the time a log file to reach the maximum age before rolling. Options include: *1-5 Years*, *1-12 Months*, *1-30 Days* and *1-24 Hours*.

Message Fence

A message priority fence can filter what messages are displayed or written to the log file. The default log priority is 8.

0-3 - All informative messages

4-7 - Unused

8-11 - Status messages (i.e.: pages output, etc...) only

12-15 - Error and other high priority messages only

Minisoft recommends a log priority of 8. If the log priority is set below 8, it could adversely affect performance.

NOTE: For the *File Name Path*, which is the directory where the log file is written to, the user must have write access to the directory that is listed.

TIP: By default, the *Log to Stdout* and *Log to a File* options are selected. We recommend selecting *Log to a File* and *Append*.

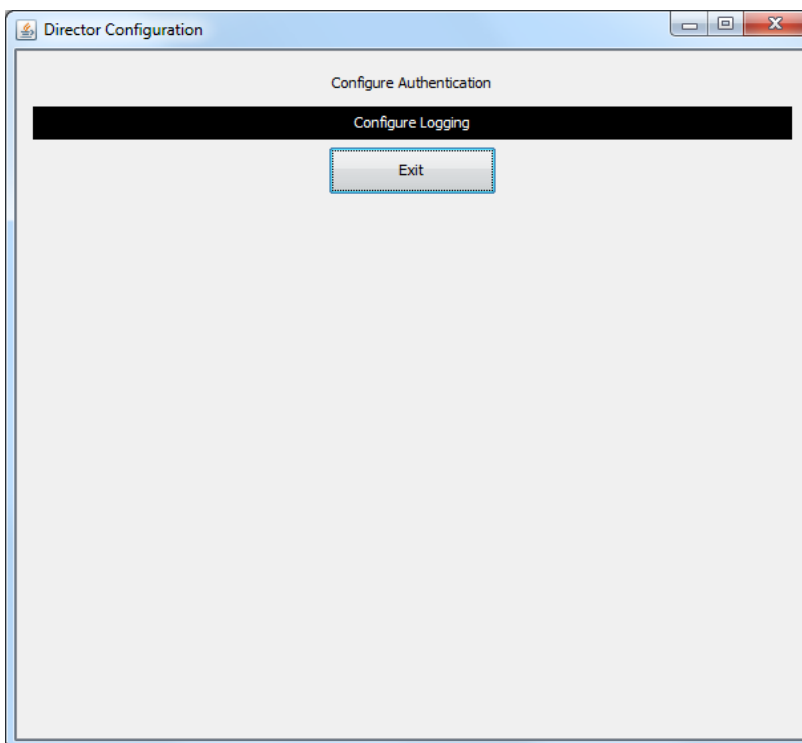
Logging From the Director & Print Monitor

The Director and the Print Monitor are the two print management services eFORMz can use to run toolkit configuration files.

Configure Logging - Director

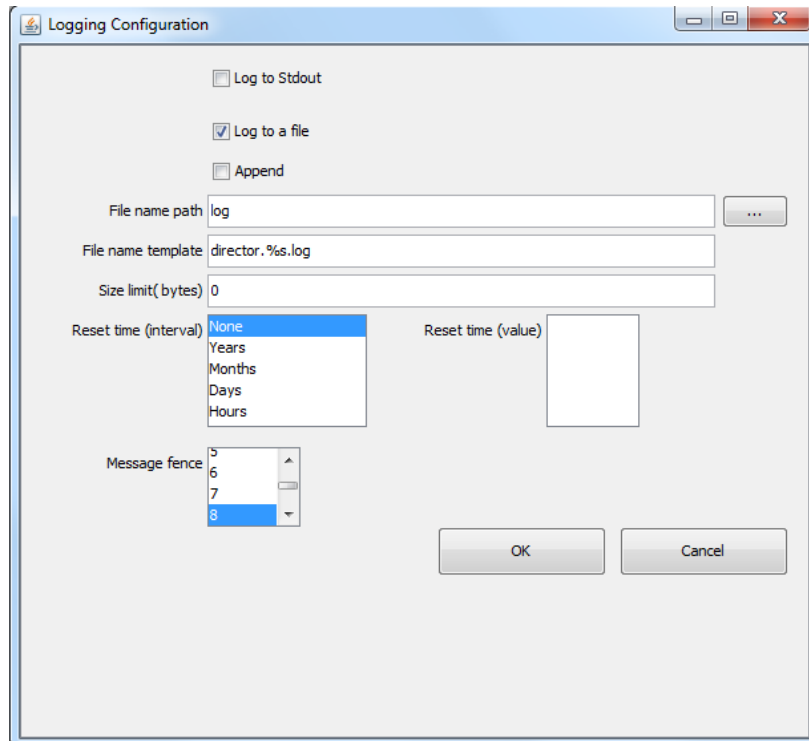
The *Configure Logging* option from the Director Configuration Menu controls the logging settings for the Director.

1. From the Director Configuration Menu, select the *Configure Logging* option.



Logging

2. The *Logging Configuration* dialog box will display. Make any necessary modifications.



Options:

Log to Stdout

When checked, this will log information to a queue print file.

Log to a File

When checked, this will write log information to a file.

Append

Permits log messages to be appended to the log file.

File Name Path

The directory in which to write the log file.

File Name Template

A file name template used for the log file. Using the string sequence "%s" in the log file name will result in the current time stamp being substituted for the file name. For example *director.%s.log* will create a file named "director.20121226105858355.log" at 10:58 am on December 26th, 2012. If a wildcard character sequence, such as "%s", is not used when naming the log file, rolling the log file will result in the filenames having a three digit number appended to the end of the name to prevent overwriting an existing file.

Size limit (bytes)

Size in bytes of the log file where a new write will result in rolling. The action of closing the current log file and opening a new log file is called "rolling" the log file.

Reset time (interval)

The type of time interval that the reset time value uses. Options include: *Years*, *Months*, *Days* and *Hours*. The default value is *None*.

Reset time (value)

The numeric value of reset time intervals to allow for the time a log file to reach the maximum age before rolling. Options include: 1-5 *Years*, 1-12 *Months*, 1-30 *Days* and 1-24 *Hours*.

Message Fence

A message priority fence can filter what messages are displayed or written to the log file. The default log priority is 8.

0-3 - All informative messages

4-7 - Unused

8-11 - Status messages (i.e.: pages output, etc...) only

12-15 - Error and other high priority messages only

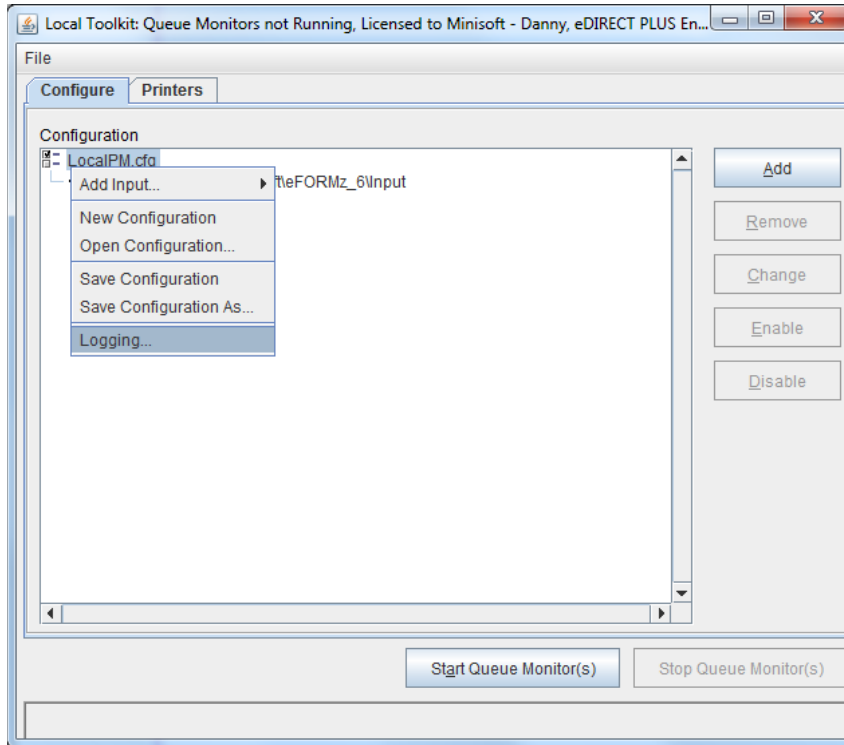
Minisoft recommends a log priority of 8. If the log priority is set below 8, it could adversely affect performance.

NOTE: For the *File Name Path*, which is the directory where the log file is written to, the user must have write access to the directory that is listed.

TIP: By default, the *Log to Stdout* and *Log to a File* options are selected. We recommend selecting *Log to a File* and *Append*.

Configure Logging - Print Monitor

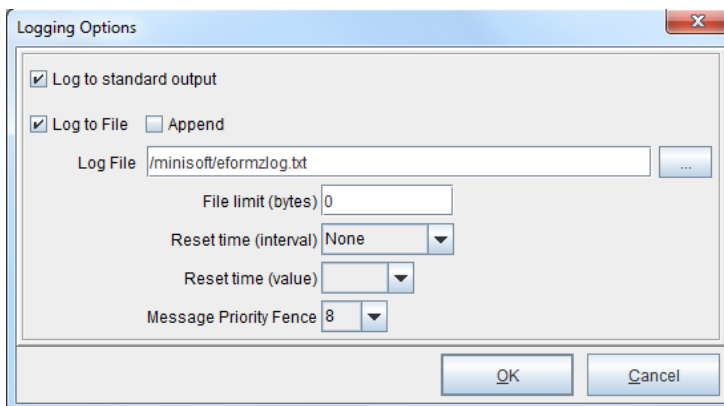
To configure logging directly from the toolkit via the Print Monitor, *right click* the configuration file name and select *Logging*.



Logging the iSeries Job Processes

To log the activity of the AS400 eFzPM job process edit your configuration file and make the following changes:

1. From the Configure tab select the configuration file name (*as4oopm.cfg*), right click, and select *Logging*.
2. The *Logging Options* dialog box displays:



Options:

Log to Standard Output

When checked, this will log information to a queue print file.

Log to File

Logs activity to the file specified in the *Log File* field. To select the location and name of the file select the browse button (...). The *Log to File* dialog box displays. Enter a file name (*eformzlog.txt*) and click Open.

Note: The */minisoft* directory is the default directory for the log file.

Append

Appends new logging information to an existing log file, otherwise, the log file will be cleared when the job process is restarted.

Log File

The directory in which to write the log file.

File limit (bytes)

Size in bytes of the log file where a new write will result in rolling. The action of closing the current log file and opening a new log file is called "rolling" the log file.

Reset time (interval)

The type of time interval that the reset time value uses. Options include: *Years*, *Months*, *Days* and *Hours*. The default value is *None*.

Reset time (value)

The numeric value of reset time intervals to allow for the time a log file to reach the maximum age before rolling. Options include: 1-5 *Years*, 1-12 *Months*, 1-30 *Days* and 1-24 *Hours*.

Message Fence

A message priority fence can filter what messages are displayed or written to the log file. The default log priority is 8.

0-3 - All informative messages

4-7 - Unused

8-11 - Status messages (i.e.: pages output, etc...) only

12-15 - Error and other high priority messages only

Minisoft recommends a log priority of 8. If the log priority is set below 8, it could adversely affect performance.

3. Once complete, click OK.

To view the activity of an active log file on your AS400, simply enter the following command at an AS400 command line:

```
DSPF '/minisoft/eformzlog.txt'
```

/minisoft being the directory the log file is saved in.

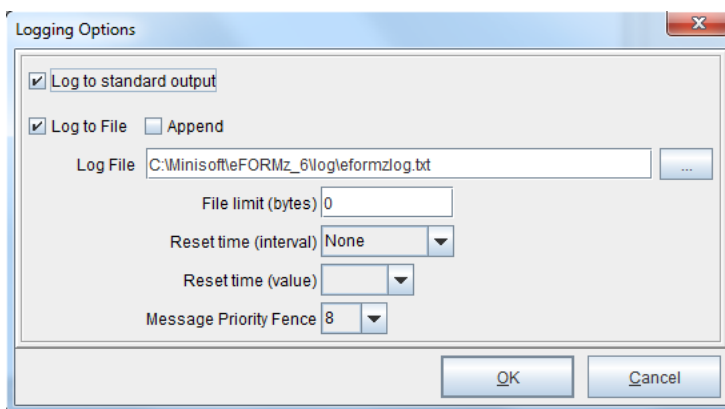
NOTE: For the *Log File* field, which is the directory where the log file is written to, the user must have write access to the directory that is listed.

TIP: By default, the *Log to Standard Output* and *Log to File* options are selected. We recommend selecting *Log to File* and *Append*.

Local Toolkit Logging

To configure the logging process:

1. Right click the Local Toolkit configuration file name (default filename *LocalPM.cfg*) and select *Logging*.
2. The *Logging Options* dialog box displays:



Options:

Log to Standard Output

When checked, this will log information to a queue print file.

Log to File

Logs the queue monitor activity to a text file. Configure the log file destination using the browse button.

The default location is *C:\Minisoft\FORMz_6\log\eformzlog.txt*.

Append

Appends logging activity to the specified log file. When unchecked the log file will be overwritten each time the queue monitor is restarted.

Log File

The directory in which to write the log file.

File limit (bytes)

Size in bytes of the log file where a new write will result in rolling. The action of closing the current log file and opening a new log file is called "rolling" the log file.

Reset time (interval)

The type of time interval that the reset time value uses. Options include: *Years*, *Months*, *Days* and *Hours*. The default value is *None*.

Reset time (value)

The numeric value of reset time intervals to allow for the time a log file to reach the maximum age before rolling. Options include: 1-5 *Years*, 1-12 *Months*, 1-30 *Days* and 1-24 *Hours*.

Message Fence

A message priority fence can filter what messages are displayed or written to the log file. The default log priority is 8.

0-3 - All informative messages

4-7 - Unused

8-11 - Status messages (i.e.: pages output, etc...) only

12-15 - Error and other high priority messages only

Minisoft recommends a log priority of 8. If the log priority is set below 8, it could adversely affect performance.

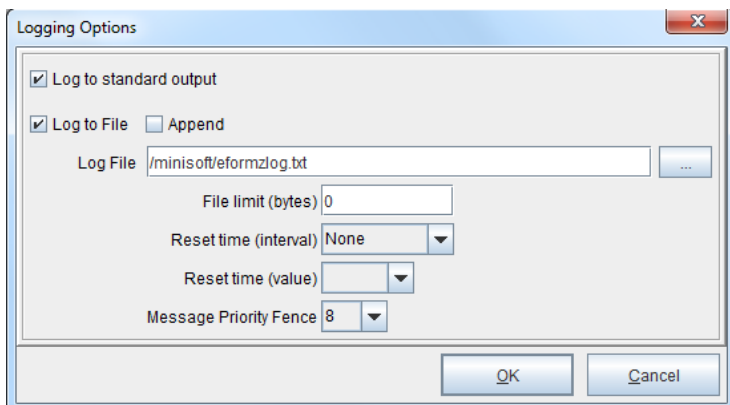
NOTE: For the *Log File* field, which is the directory where the log file is written to, the user must have write access to the directory that is listed.

TIP: By default, the *Log to Standard Output* and *Log to File* options are selected. We recommend selecting *Log to File* and *Append*.

Logging the Unix Job Process

To monitor and log the Unix job process:

1. From the Unix Toolkit select the *UnixPM.cfg* configuration file, *right click*, and select *Logging*.
2. The *Logging Options* dialog box displays:



Options:

Log to Standard Output

Logs the queue monitor activity to the standard output log *nohup.out*.

Log to File

Logs the queue monitor activity to a text file. Default *minisoft/eformzlog.txt*.

Append

Appends logging activity to the specified 'log to file'. When unchecked the log file will be overwritten each time the queue monitor is restarted.

Log File

The directory in which to write the log file.

File limit (bytes)

Size in bytes of the log file where a new write will result in rolling. The action of closing the current log file and opening a new log file is called "rolling" the log file.

Reset time (interval)

The type of time interval that the reset time value uses. Options include: *Years*, *Months*, *Days* and *Hours*. The default value is *None*.

Reset time (value)

The numeric value of reset time intervals to allow for the time a log file to reach the maximum age before rolling. Options include: 1-5 *Years*, 1-12 *Months*, 1-30 *Days* and 1-24 *Hours*.

Message Fence

A message priority fence can filter what messages are displayed or written to the log file. The default log priority is 8.

0-3 - All informative messages

4-7 - Unused

8-11 - Status messages (i.e.: pages output, etc...) only

12-15 - Error and other high priority messages only

Minisoft recommends a log priority of 8. If the log priority is set below 8, it could adversely affect performance.

NOTE: For the *Log File* field, which is the directory where the log file is written to, the user must have write access to the directory that is listed.

TIP: By default, the *Log to Standard Output* and *Log to File* options are selected. We recommend selecting *Log to File* and *Append*.

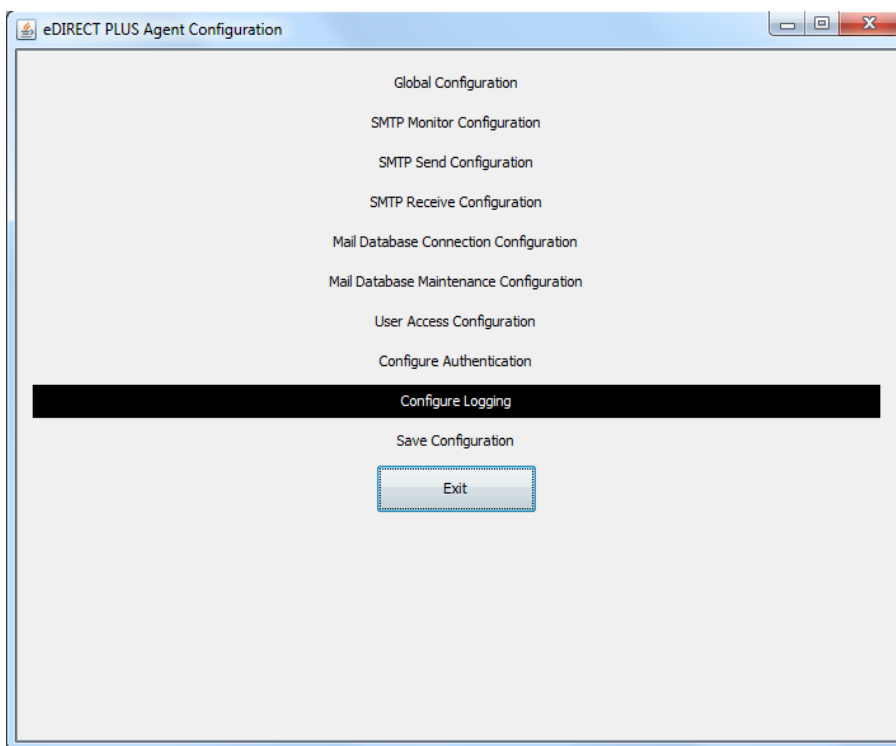
Logging From the eDIRECT+ Agent

The eDIRECT+ Agent is a service that runs on a server for email distribution and tracking. For more on the eDIRECT+ Agent, consult the *eDIRECT/eDIRECT PLUS Manual*.

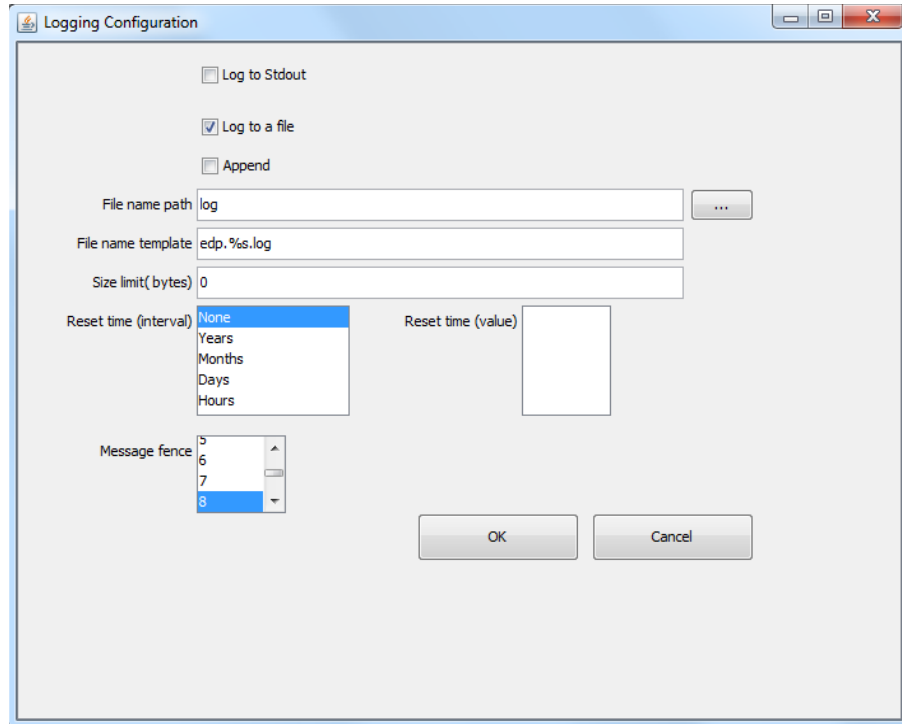
Configure Logging

The *Configure Logging* option from the eDIRECT PLUS Agent Configuration Menu controls the logging settings for the eDIRECT+ Agent.

1. From the eDIRECT PLUS Agent Configuration Menu, select the *Configure Logging* option.



2. The *Logging Configuration* dialog box will display. Make any necessary modifications.



Options:

Log to Stdout

When checked, this will log information to a queue print file.

Log to a File

When checked, this will write log information to a file.

Append

Permits log messages to be appended to the log file.

File Name Path

The directory in which to write the log file.

File Name Template

A file name template used for the log file. Using the string sequence “%s” in the log file name will result in the current time stamp being substituted for the file name. For example *edp.%.log* will create a file named “edp.20121226105858355.log” at 10:58 am on December 26th, 2012. If a wildcard character sequence, such as “%s”, is not used when naming the log file, rolling the log file will result in the filenames having a three digit number appended to the end of the name to prevent overwriting an existing file.

Size limit (bytes)

Size in bytes of the log file where a new write will result in rolling. The action of closing the current log file and opening a new log file is called "rolling" the log file.

Reset time (interval)

The type of time interval that the reset time value uses. Options include: *Years*, *Months*, *Days* and *Hours*. The default value is *None*.

Reset time (value)

The numeric value of reset time intervals to allow for the time a log file to reach the maximum age before rolling. Options include: 1-5 *Years*, 1-12 *Months*, 1-30 *Days* and 1-24 *Hours*.

Message Fence

A message priority fence can filter what messages are displayed or written to the log file. The default log priority is 8.

0-3 - All informative messages

4-7 - Unused

8-11 - Status messages (i.e.: pages output, etc...) only

12-15 - Error and other high priority messages only

Minisoft recommends a log priority of 8. If the log priority is set below 8, it could adversely affect performance.

NOTE: For the *File Name Path*, which is the directory where the log file is written to, the user must have write access to the directory that is listed.

TIP: By default, the *Log to Stdout* and *Log to a File* options are selected. We recommend selecting *Log to a File* and *Append*.

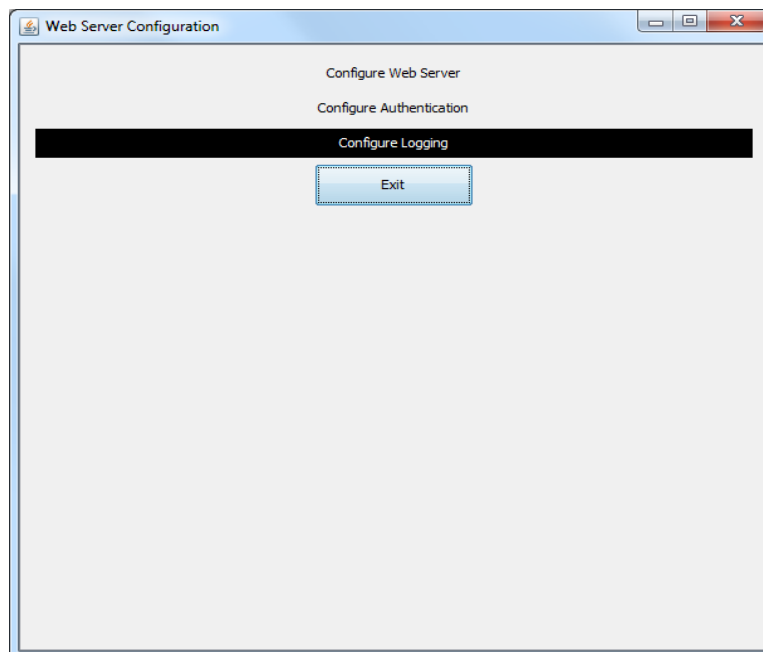
Logging From the Web Server

The Web Server delivers Web content that can be accessed through the Internet for the control of the eFORMz 9.0 product suite. The Service Manager, the Director Service, the eDIRECT+ Agent and the Web Server can be configured and controlled via the Web pages hosted on the Web Server.

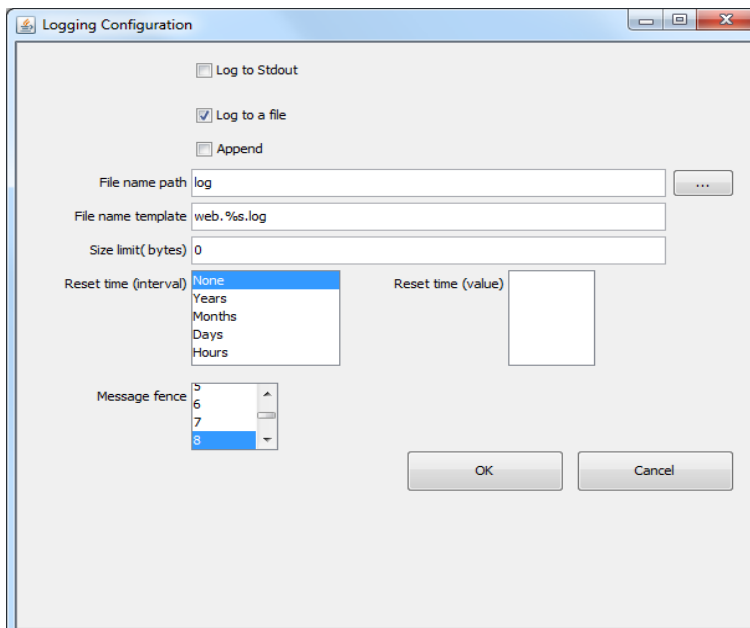
Configure Logging

The *Configure Logging* option from the Web Server Configuration Menu controls the logging settings for the Web Server.

1. From the Web Server Configuration Menu, select the *Configure Logging* option.



- The *Logging Configuration* dialog box will display. Make any necessary modifications.



Options:

Log to Stdout

When checked, this will log information to a queue print file.

Log to a File

When checked, this will write log information to a file.

Append

Permits log messages to be appended to the log file.

File Name Path

The directory in which to write the log file.

File Name Template

A file name template used for the log file. Using the string sequence "%s" in the log file name will result in the current time stamp being substituted for the file name. For example *web.%.log* will create a file named "web.20121226105858355.log" at 10:58 am on December 26th, 2012. If a wildcard character sequence, such as "%s", is not used when naming the log file, rolling the log file will result in the filenames having a three digit number appended to the end of the name to prevent overwriting an existing file.

Size limit (bytes)

Size in bytes of the log file where a new write will result in rolling. The action of closing the current log file and opening a new log file is called "rolling" the log file.

Reset time (interval)

The type of time interval that the reset time value uses. Options include: *Years*, *Months*, *Days* and *Hours*. The default value is *None*.

Reset time (value)

The numeric value of reset time intervals to allow for the time a log file to reach the maximum age before rolling. Options include: 1-5 *Years*, 1-12 *Months*, 1-30 *Days* and 1-24 *Hours*.

Message Fence

A message priority fence can filter what messages are displayed or written to the log file. The default log priority is 8.

0-3 - All informative messages

4-7 - Unused

8-11 - Status messages (i.e.: pages output, etc...) only

12-15 - Error and other high priority messages only

Minisoft recommends a log priority of 8. If the log priority is set below 8, it could adversely affect performance.

NOTE: For the *File Name Path*, which is the directory where the log file is written to, the user must have write access to the directory that is listed.

TIP: By default, the *Log to Stdout* and *Log to a File* options are selected. We recommend selecting *Log to a File*, and *Append*.



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