LogToMail

Documentation

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II.   Introduction

LogToMail is a simple, yet extremely handy application which provides an automatic e-mail service to user-defined recipients when specific windows events are raised.

In this document, you'll find all you need to install and uninstall the tool, as well as how to use it.

III. Overview

LogToMail can be used as a Windows service, or as a console application.

As soon as LogToMail is up and running, it monitors Windows events and upon creation of a new one, sends an email to the configured recipient(s).

Furthermore, you can define rules to filter events such as send emails only on errors but ignore warnings, and/or exclude a well-known error.

IV. Installation

- Download setup: http://www.softfluent.com/products/logtomail
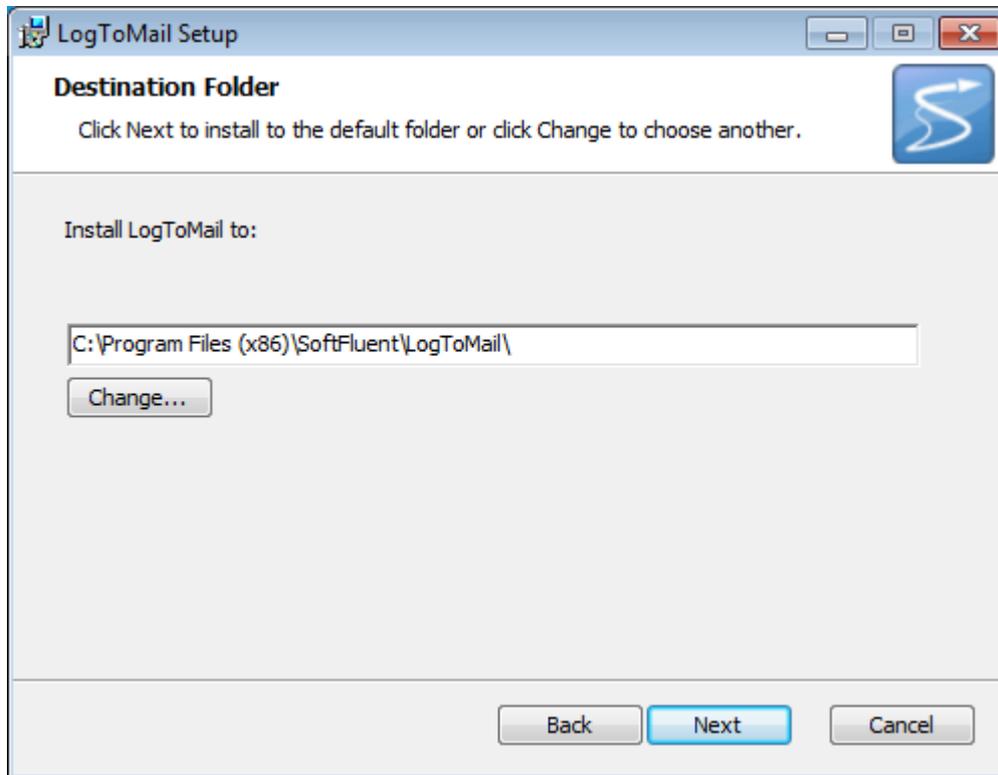- Launch "**LogToMail.Setup.msi**":

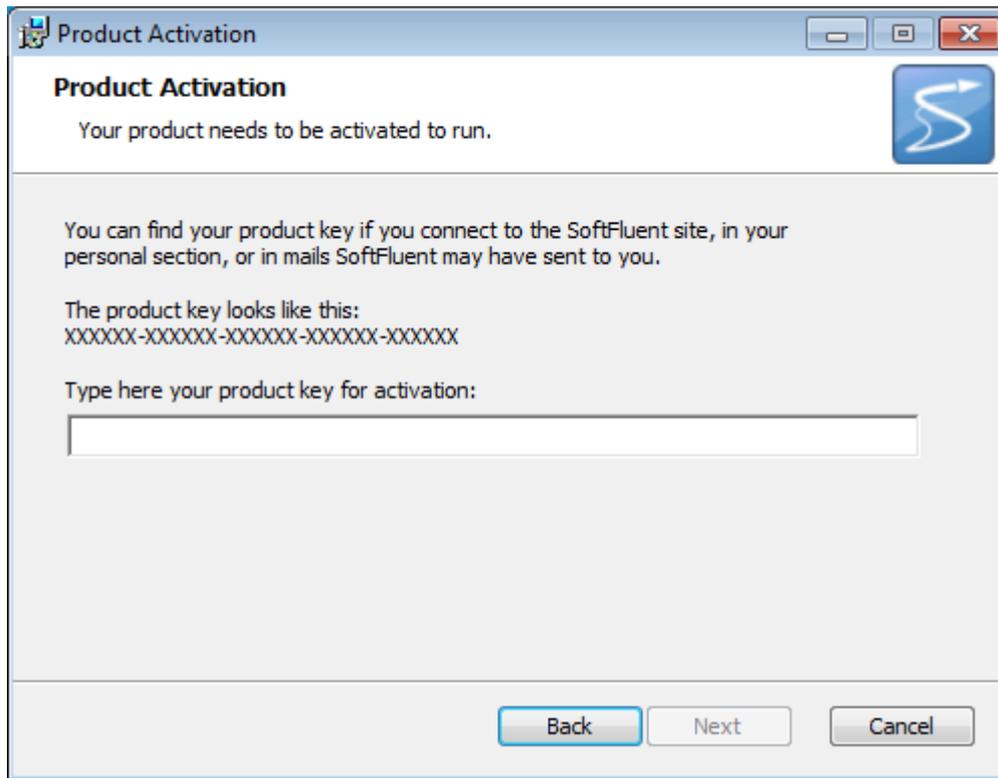
- Accept end-user license agreement:

Read and accept the End-User License Agreement by checking the "*I accept the terms in the License Agreement*".

- Set the destination folder:

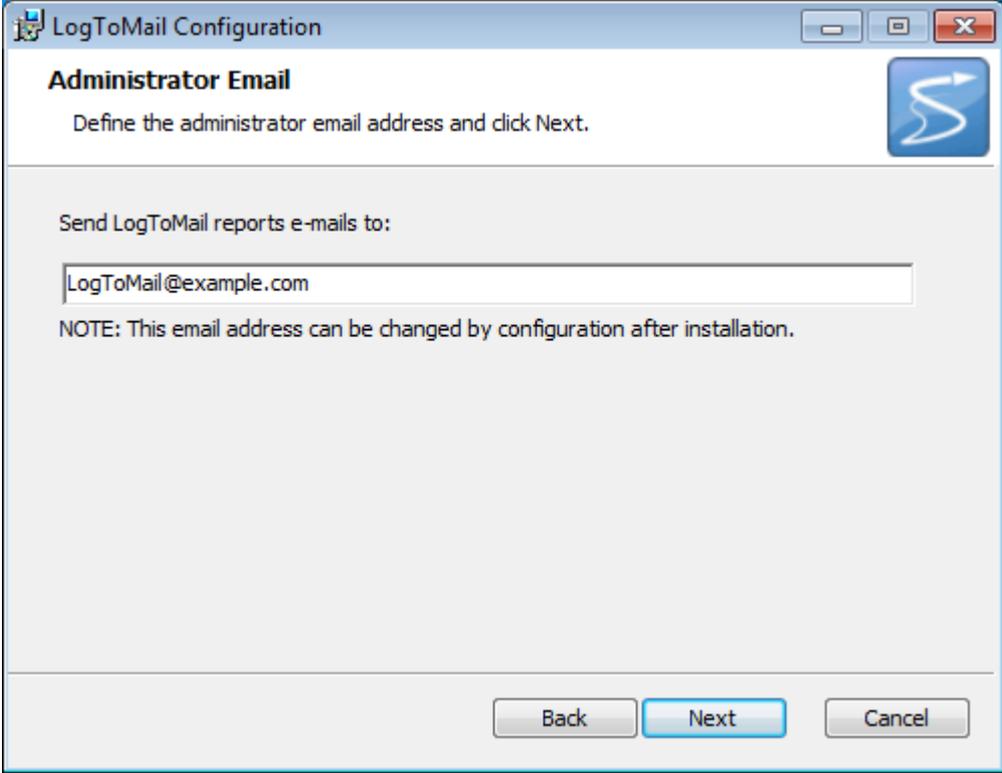Keep or modify the desired folder where files will be deployed.

- Activate the product using your license key:

Type-in your product key to activate your product on our servers.

*Note: Copy/pasting your key is also possible, however due to the technology used; copy/pasting a key does not enable the **Next** button. If in this scenario, you'll have to click and "**Back**" and then "**Next**" to refresh the screen and ensure the **Next** button is enabled.*

- Define the administrator's email:

Type-in the email address to be used as the recipient of all automatic notifications.

Please note that you can change this information in the tool configuration file (*LogToMail.exe.config)*. Refer to the *Configuration* section of this document for more information.

- Install:
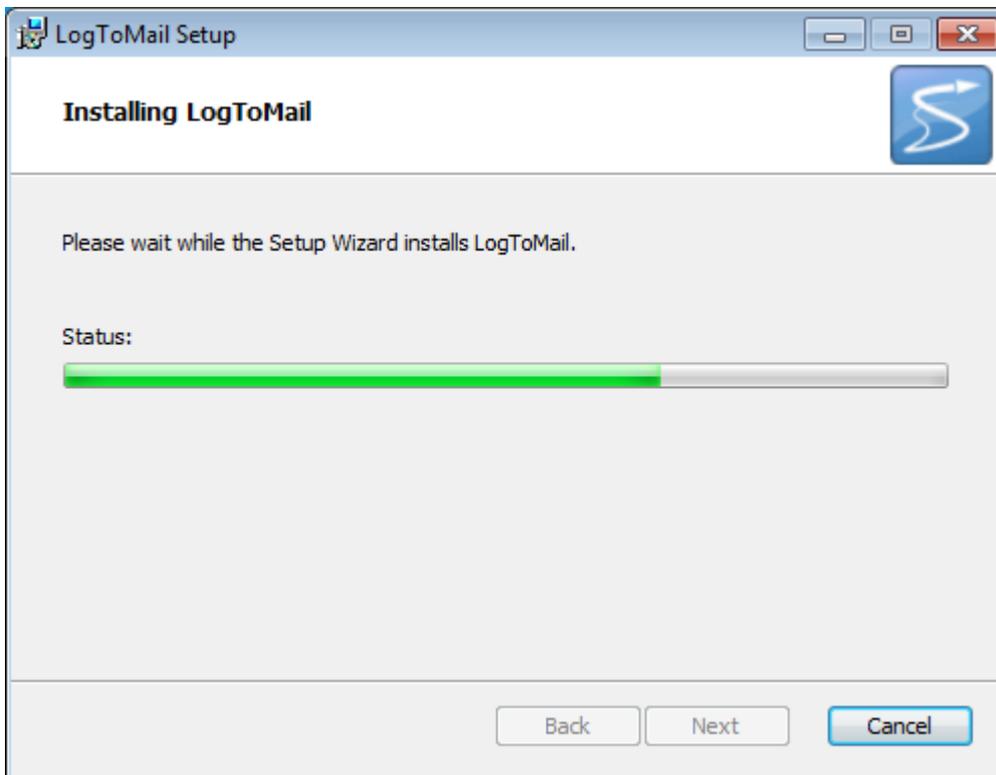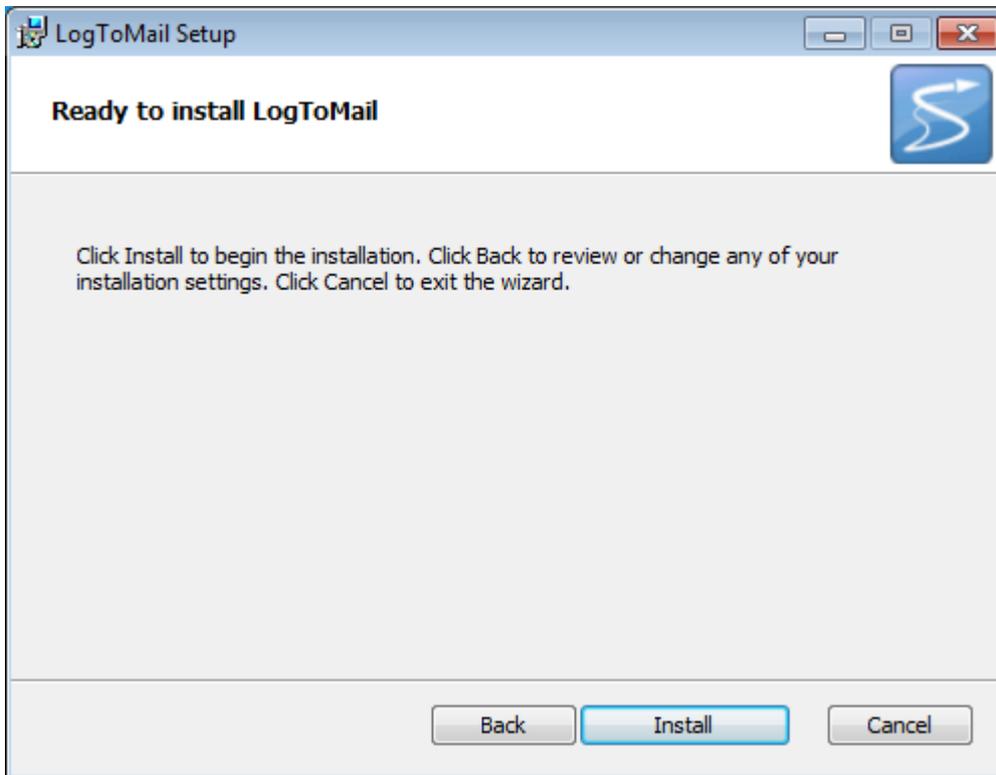
- Installation completed!

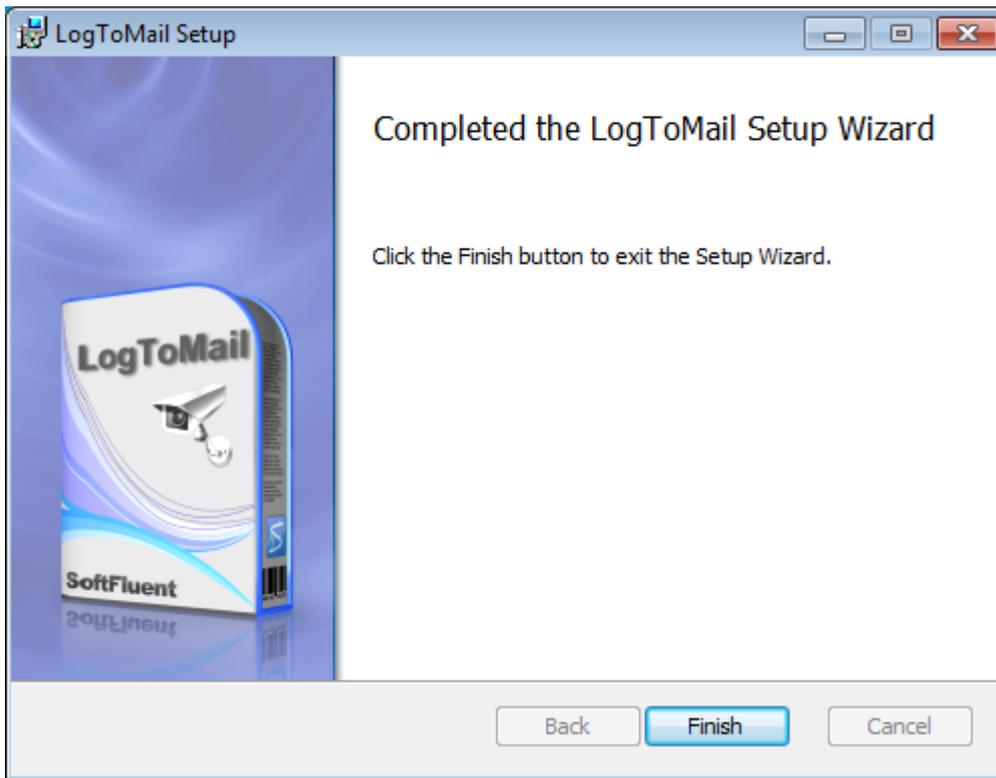Once the install completed, files should have been deployed in the specified installation directory (*%ProgramFiles(x86)%\SoftFluent\LogToMail* by default) and the service installed on your machine:
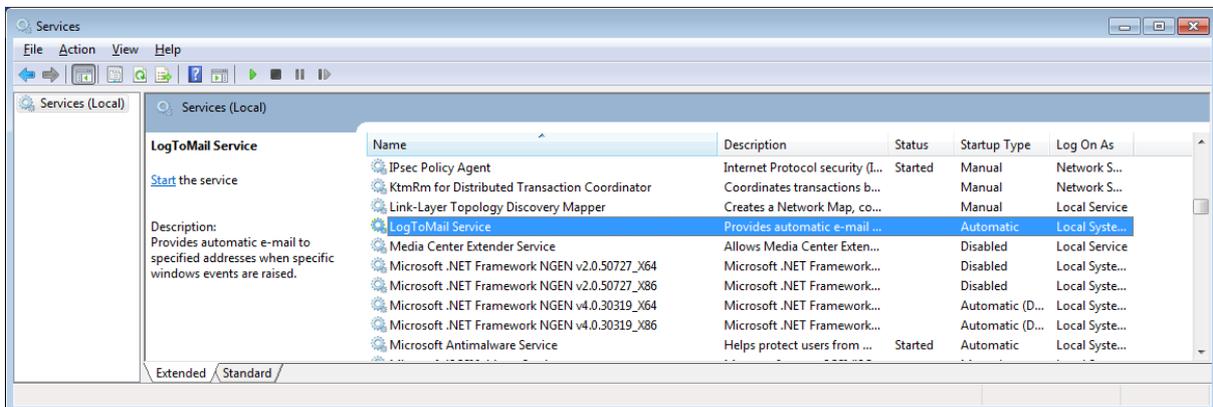
As you can see the service is stopped by default, so you can configure it before actually running it.

Refer to the *Configuration* section for more information.

V.   Uninstallation

- Go to **Control Panel > Programs and Features**, right-click on "**LogToMail**" and select "**Uninstall**":

VI. Configuration

You can configure the tool using the file "**LogToMail.exe.config**". The configuration is in XML and is composed of two sections:
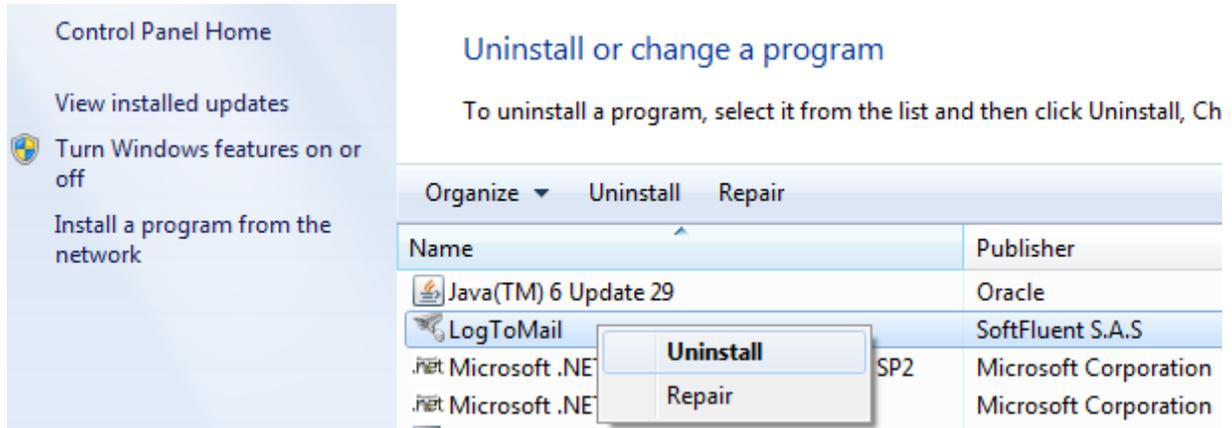
- Mail Settings
- LogToMail Settings

A. Mail Settings

Mail settings can be configured under the *<mailSettings>* element.

This entire section, including the <system.net> for network settings and the *<mailSettings>* element specific to mail settings, are standard .NET configuration section.

You'll find a complete documentation of what you can in the msdn: http://msdn.microsoft.com/en-us/library/w355a94k.aspx

Example:

```
<system.net>
 <mailSettings>
  <smtp from="logtomail@softfluent.com">
   <network host="MailServer"/>
  </smtp>
 </mailSettings>
</system.net>
```

In this example, mails will be using the "*logtomail@softfluent.com*" mail address, and use the machine "*MailServer*" as the mail server.

B. LogToMail Settings

Settings specific to LogToMail are located under the *<LogToMail.service>* element.

1. Watcher element

Using the <watcher> element, you can specify a recipient to send fatal errors to, that is to say the person to whom the tool should send a mail were it to crash.

Example:

```
<watcher sendFatalErrorsTo="LogToMail@example.com">
```

In this example, if the LogToMail service crashes, the error mail will be sent to "*LogToMail@example.com*".

2. Rule element

Declare a <rule> element under the <rules> element to specify a rule in LogToMail. Define your rule in JavaScript between the opening and closing tags of the rule element.

The rule element also provides the following set of attributes to specify rule-level options:

Attribute	Required	Default	Description
name	Yes	Empty	Name of the rule.
sendTo	Yes	Empty	The mail address to send the notification email to.
sendFrom	No	Empty	The mail address to use as the "from" field.
sendFromDisplayName	No	Empty	A string to use as the sender display name.
enabled	No	True	A boolean indicating whether the rule is enabled or not.
setPriority	No	True	A boolean indicating whether to set priority on mail message (high for errors and security failures, normal for warnings, low for successes and information).
mailSubject	No	#Type# - #SourceName#: #Message#	The mail subject to be used.
mailSubjectMaxLength	No	128	The mail subject maximum length.
mailBody	No	A html table containing all event values.	The mail body to use.
dataFileName	No	data.hex	The data filename to use to send event data if any.
scriptLanguage	No	javascript	The script language to evaluate the rule.

Example:

```
<rule name="default" sendFrom="logtomail@softfluent.com" sendTo="LogToMail@example.com">
   Event.EventType == 1
</rule>
```

As you can see this rule will send an email to *"LogToMail@example.com"* only for log events of type 1 (i.e. errors).

As you can see, the rule body has access to an Event object containing the following properties:

The Event class

Property	Type	Description
EventCode	Short	The event code.
EventIdentifier	Int	The event identifier.
EventType	Byte	The event type. See http://msdn.microsoft.com/en-us/library/system.diagnostics.eventlogentrytype.aspx for possible values.
Category	Short	The application-specific category number for this event.
CategoryString	string	Gets the text associated with the Category property for this event.
ComputerName	String	The computer name.
Data	Byte[]	Gets the binary data associated with the event.
InsertionStrings	String[]	Gets the replacement strings associated with this event.
Message	String	Gets the message associated with this event.
SourceName	String	Gets the name of the application that generated this event.
TimeGenerated	DateTime	Gets the local time at which the event was generated.
TimeWritten	DateTime	Gets the local time at which this event was written to the log.
User	String	Gets the user name related to this event.

Example:

```
<rule name="SendToUsers" sendFrom="logfluent@softfluent.com"
sendTo="user1@example.com,user2@example.com,user3@example.com"
sendFromDisplayName="LogFluent '#::Environment.MachineName#'">
        (Event.EventType == 1)  &amp;&amp; (Event.EventCode != 1058) &amp;&amp;
(Event.EventCode != 1126)
</rule>
```
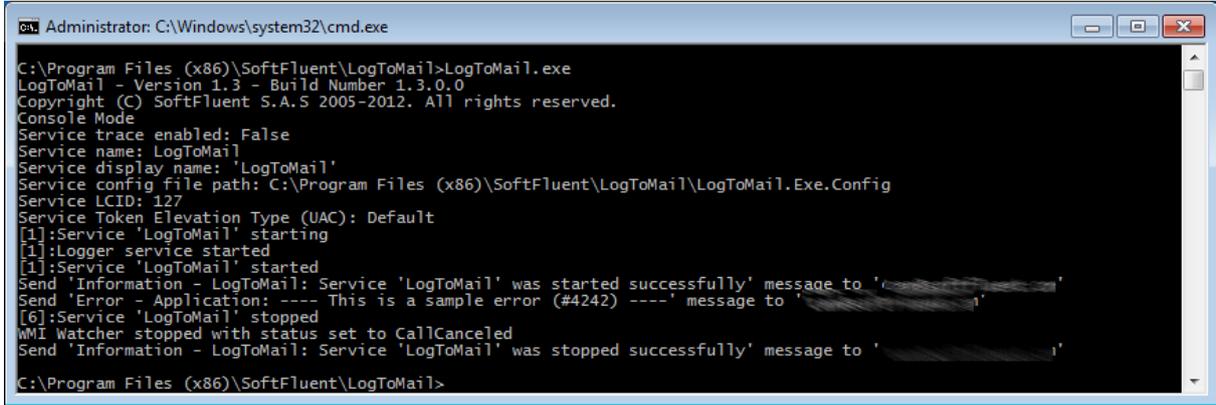
The following rule will send all error events except the ones with event codes 1058 and 1126 to users user1, user2 and user3.

Note: as the configuration file is in XML and that the ampersand is a reserved character in XML, you have to use its escaped form (i.e. "&" instead of "&").

C.   Testing rules

LogToMail can run as a Windows service or a console application, making it easy for you to test your new rules before getting them live.

Write your new rule in the configuration file, and then launch LogToMail.exe from a console application: all information is displayed on the console making it easier to troubleshoot.

VII. Support

Experiencing some difficulties?

Support is available via email at support@softfluent.com or on our forums.