

Boldon James

A QINETIQ company

Mac Classifier Supplement Guide

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Gold
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Customer Documentation

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1 INTRODUCTION

This document summarises the Classifier features supported by **Mac Classifier**.

Mac Classifier adds additional features to Microsoft Outlook emails, together with Word, Excel, and PowerPoint documents. Mac Classifier offers a subset of the features supported by the equivalent Classifier product for Windows.

A summary of the main differences between Classifier applications for Mac and for Windows appears in the next section. Later sections of the document provide a detailed comparison between the products in these two environments.

2 SUMMARY OF DIFFERENCES

2.1 User Experience

In the Mac environment, the Classifier product does not enhance the ribbon bar for Outlook, Word, Excel and PowerPoint to the same extent as in the Windows environment. The following items available in the Windows environment do not appear in the Mac environment:

- Label options such as Clear, Default and Help do not appear in the ribbon bar; these options are available from the full label selection dialog.
- Selectors do not appear in the ribbon bar; these options are available from the full label selection dialog.
- Favourites are only available from the full label selection dialog.

2.2 Features

The following table provides a high-level summary of the features supported by Classifier in the Mac and Windows environments. Links are provided to later sections in the document for further information.

Feature	Supported Environments
McAfee HDLP integration (Outlook only)	Only Windows
General Features	
• Common Label handling features	Windows and Mac
• Common Label interface actions	
o Label Selection dialog	Windows and Mac
o Label Options	Only Windows
o Favourites	Windows and Mac
o Recently used labels	Only Windows
o Folder View Labelling	Only Windows
o Portion Mark	Only Windows
o Control of options shown and ribbon location	Only Windows
o Remove Classifier options from ribbon bar	Only Windows
o Show help button in ribbon bar	Only Windows
Global settings	Windows and Mac
Configuration settings – Application Settings , Label Locations , General Settings	Windows and Mac
Policy features	
• One or more policies may be defined	Windows and Mac
• Users see a policy view of the features	Windows and Mac
• Outlook specific policy	Only Windows
• Policy control of Rules per application (Rules Supported)	Windows and Mac
• Challenge option	
• Policy UI controls	Windows and Mac
• Display selector values as buttons (Single selection list only)	Windows and Mac
• Show selector captions in ribbon bar	Only Windows

<ul style="list-style-type: none"> Suggested Classifications 	Only Windows
Selectors and Label Selection interface	
<ul style="list-style-type: none"> Additional selectors (no specific limit is imposed, but Classifier testing has exercised up to 12) 	Windows and Mac
<ul style="list-style-type: none"> Label Selection interface Tabs 	Windows and Mac
<ul style="list-style-type: none"> Single selection list 	Windows and Mac
<ul style="list-style-type: none"> Multiple selection list 	Windows and Mac
<ul style="list-style-type: none"> Text entry selector 	Windows and Mac
<ul style="list-style-type: none"> Date picker selector 	Windows and Mac
<ul style="list-style-type: none"> Date offset list selector 	Windows and Mac
<ul style="list-style-type: none"> Single Click 	Windows and Mac
<ul style="list-style-type: none"> Assisted Labelling 	Windows and Mac
Marking Formats	
<ul style="list-style-type: none"> Marking Formats with Hyperlinks 	Windows and Mac
<ul style="list-style-type: none"> Environment Variables in Marking Formats 	Only Windows
<ul style="list-style-type: none"> Document properties in Marking Formats (Office) 	Windows and Mac – but Status only available in Windows
<ul style="list-style-type: none"> Email properties in Marking Formats 	Windows and Mac – but Sensitivity only available in Windows
<ul style="list-style-type: none"> Use plain text style 	Windows and Mac
Other Features	
<ul style="list-style-type: none"> User features controlled by Classifier Policy 	Windows and Mac
<ul style="list-style-type: none"> Configuration in Active Directory or File store or via Web 	Windows and Mac – but Active Directory only available in Windows
<ul style="list-style-type: none"> Extensive audit features 	Windows and Mac
<ul style="list-style-type: none"> Dynamic Clearances 	Only Windows
<ul style="list-style-type: none"> SMTP domain clearances 	Windows and Mac
<ul style="list-style-type: none"> User Interface Library 	Windows and Mac
<ul style="list-style-type: none"> Content Library 	Only Windows
<ul style="list-style-type: none"> Conditions Library 	Only Windows
<ul style="list-style-type: none"> Multiple Language support 	Support for languages other than English can be found in the Release Notes.
<ul style="list-style-type: none"> Localisation of selector value Name, Tooltip, Portion, Alternate Name /2/3 (Single selection list only) 	Windows and Mac
<ul style="list-style-type: none"> Licence control of feature availability 	Windows and Mac
<ul style="list-style-type: none"> Image Library 	Windows and Mac
<ul style="list-style-type: none"> Site control of user messages 	Windows and Mac
File Type Support (Label Propagation mechanisms)	
<ul style="list-style-type: none"> Microsoft Office types (Word, Outlook etc.) 	Windows and Mac
<ul style="list-style-type: none"> JPEG (manual configuration) 	Windows and Mac
<ul style="list-style-type: none"> HTML (manual configuration) 	Windows and Mac
<ul style="list-style-type: none"> Open Office file types (manual configuration) 	Windows and Mac
<ul style="list-style-type: none"> AUTOCAD files (DWG and DXF) 	Only Windows
<ul style="list-style-type: none"> Visio Files 	Only Windows

2.3 Other Limitations

- The **Touchbar** on MacBook Pro should not be used to send mail as the Classifier functionality is not invoked.

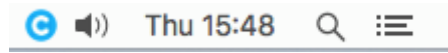
The following functionality is available in the Windows environment but is not available in the Mac environment:

- Word Headers and Footers do not support font changes in the middle of a word.
- Word Headers and Footers do not support text boxes.
- Excel Headers and Footers do not support multiple fonts (colour / face / size).
- Excel Headers and Footers do not support different First Page / Odd / Even Page options. This is a limitation of the Mac Office application. Classifier Administration limits the rule options available accordingly.
- Outlook in the Mac environment does not allow writing email transport headers (X-Headers). For labelling interoperability, all Classifier enabled email clients should be configured to add a label as a complete visual marking and all clients should be configured to use Label Locations to read the label from the same visual marking.
- Outlook in the Mac environment does not support the expiry time property or sensitivity property that the Windows version does support.
- Outlook (Office 365) – The **Send Later** option is disabled in the Mac environment but is available in the Windows environment as the Delay Delivery option.
- The Classifier client for Outlook in the Mac environment supports labelling of email messages only. For instance, Classifier for Mac does not support the labelling of tasks or appointments.

3 USER EXPERIENCE DETAILS

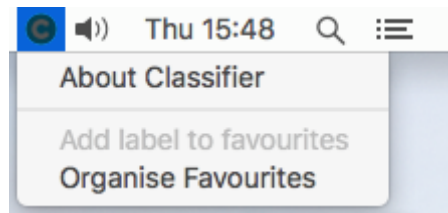
3.1 General

Mac Classifier runs as a service and will automatically start whenever a user logs on to the Mac, adding an icon to the MacOS menu bar.



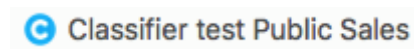
Classifier icon in MacOS menu bar

This menu will give access to **Favourites** and the **About Classifier** information:



Classifier menu

If there is a Classifier label associated with the currently active application, the label's summary marking appears alongside the Classifier icon in the menu bar.

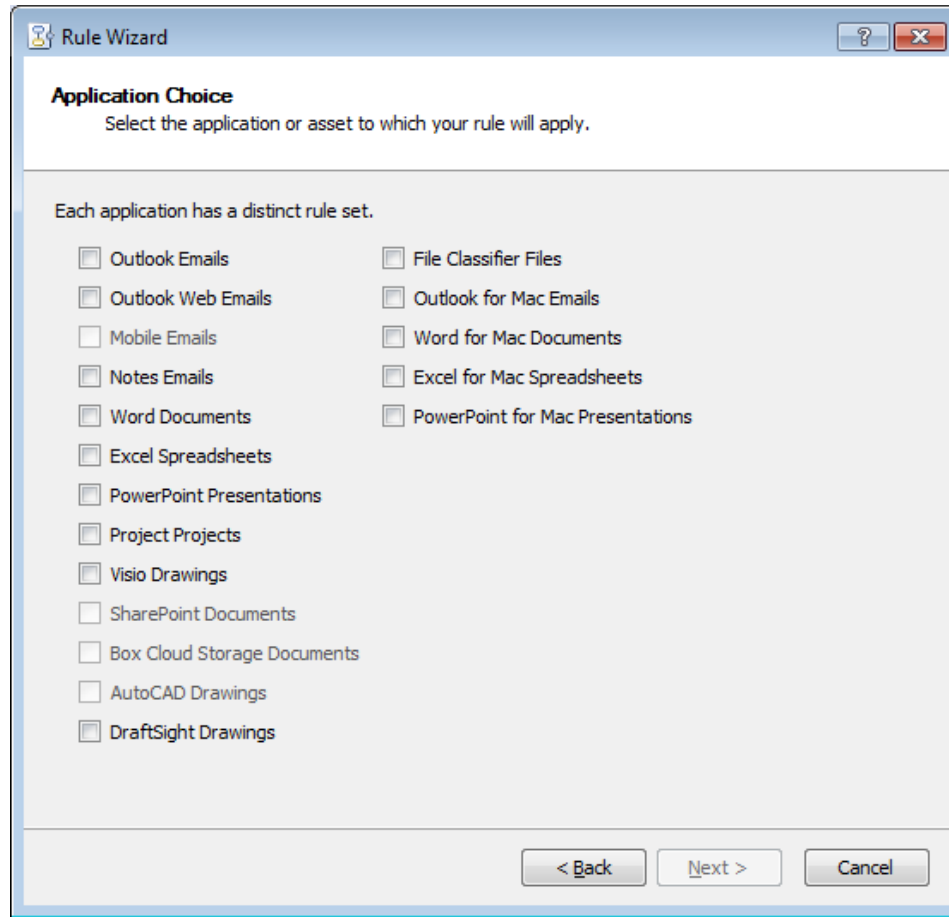


Menu Bar label

By default, summary markings longer than 50 characters will be truncated and terminated with the ellipsis (...) character. Hovering over the menu title will display the full label in a pop-up.

3.2 Rule Configuration

The Classifier Administration Rule Wizard interface configures Rules for Mac Classifier. Additional choices appear for the Mac Office applications following the application of a suitable Mac Classifier licence:



Rule Wizard application choice

3.3 Applications

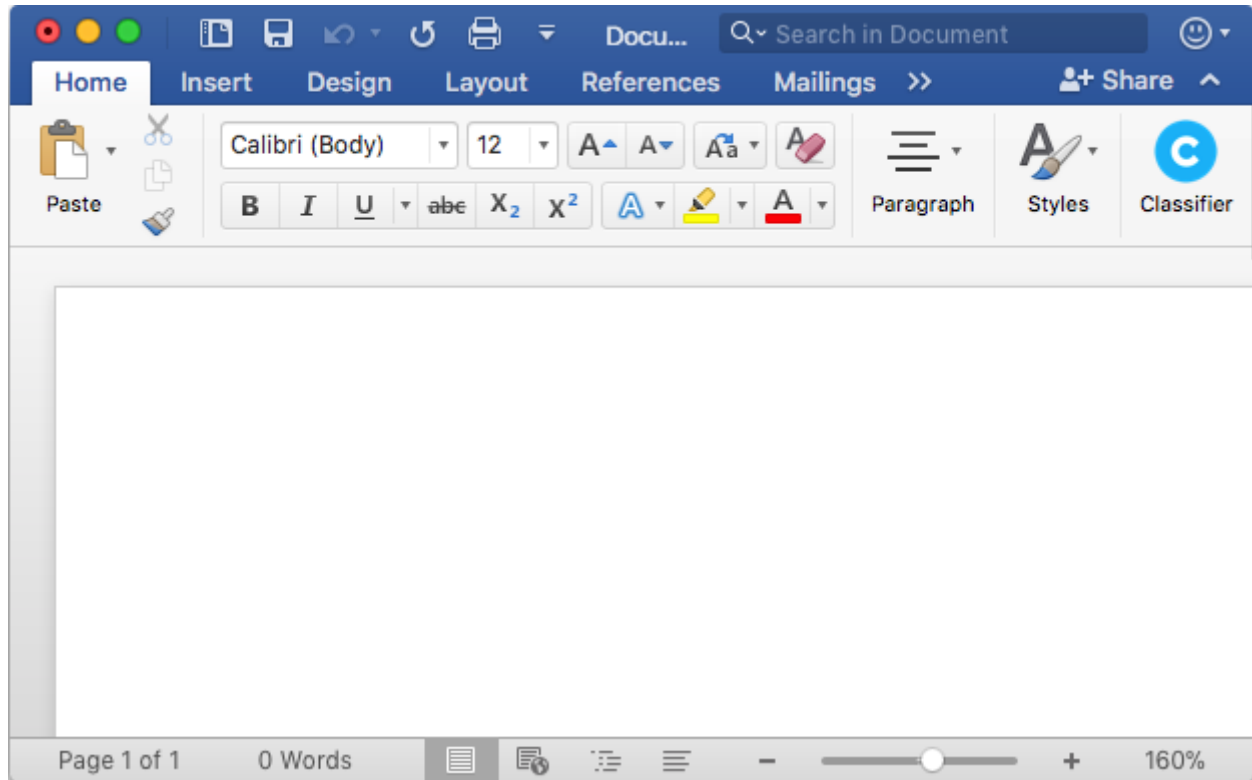
The Mac environment imposes some limitations on the features and mechanisms supported by Classifier leading to a simplified label selection interface.

3.3.1 Invoking the Classifier Label Selection dialog

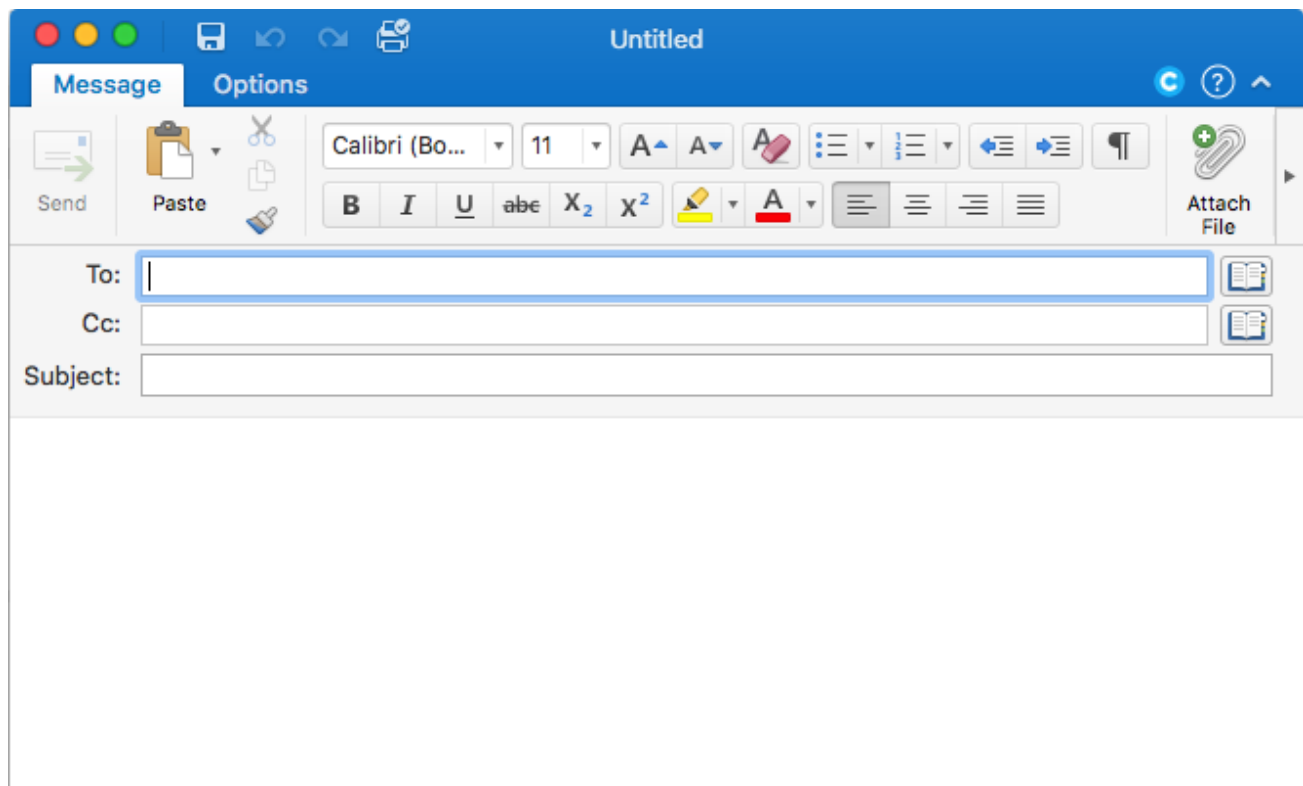
For Word, Excel, and PowerPoint, Classifier places a single button on the ribbon. In the case of Outlook, a smaller button is added to the top of the ribbon when composing or viewing an email. These buttons serve to invoke the Classifier Label dialog.



Label dialog launch buttons



Classifier button in Word




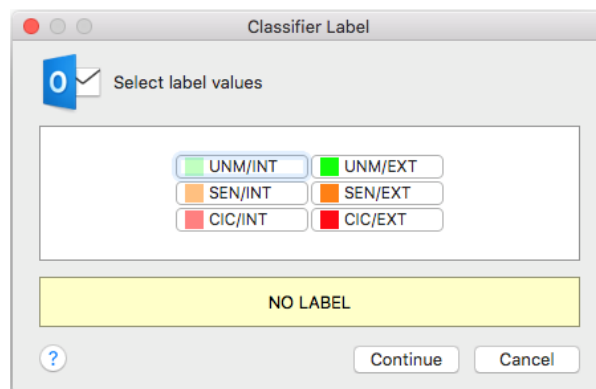
Classifier button in Outlook

3.3.2 Label Selection dialog

When the Classifier button is pressed, a label selection dialog appears that presents the currently selected label value and the available selectors and selector values.

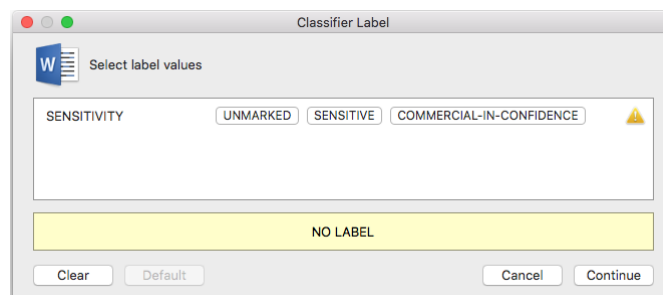
The example below shows a dialog presenting choices using **Single Click** features. All the supported applications present a similar dialog but including an application specific icon.

Note: The help button  only appears in the label dialogs below if there is a valid URL for your labelling help site configured in the Classifier general settings.



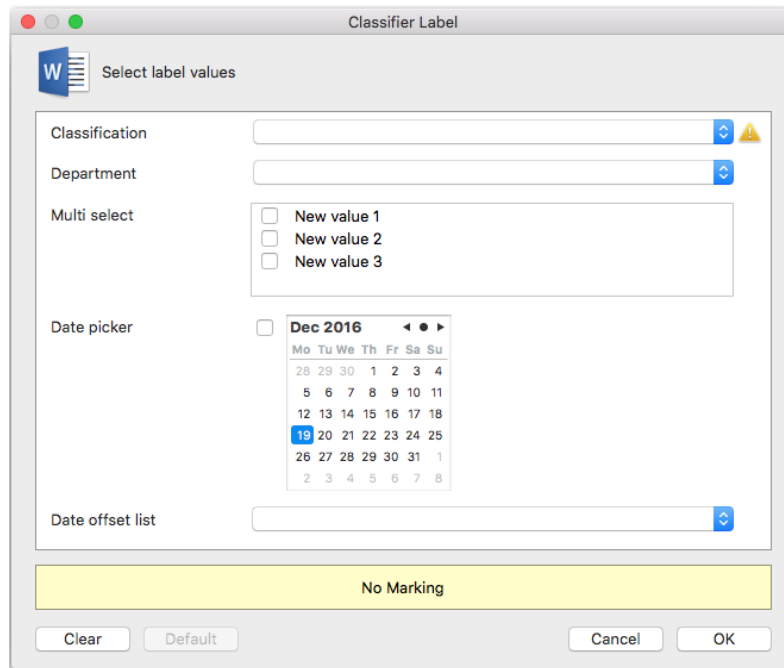
Single Click Label Selection

In the example above, the summary label bar contains the text NO LABEL. Clicking on the summary label bar provides access to the full label selection dialog. The example below uses the **Assisted Labelling** features.



Assisted Labelling – first selector mandatory

Note if you switch backwards and forwards between single-click and full label dialog, when you close the dialog it will remember the last mode used, and use the same mode when you re-open it. This is different to Windows that always starts in the configured mode.

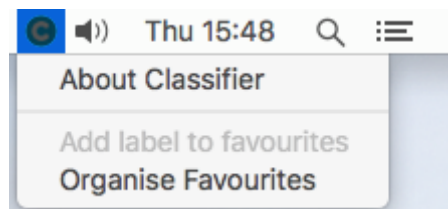


Label Selection – selector types

3.3.3 Favourites

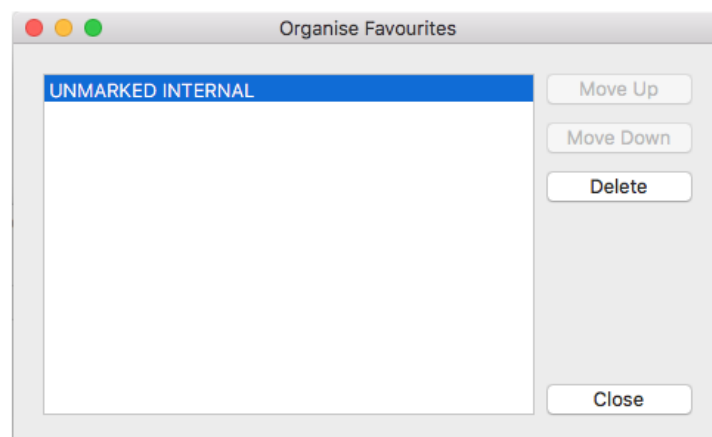
An Administrator can make **Favourites** available to users by using the **Display of Favourites** General setting.

If enabled, Favourites management options are available below the Classifier screen icon menu:



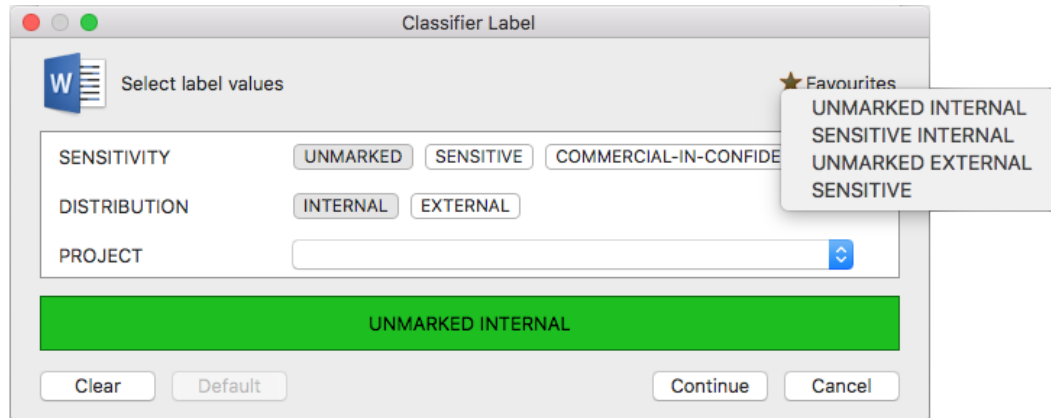
Organise Favourites

If the current Classifier application has a label value, then the **Add Label to Favourites** will be available. Selecting **Organise Favourites** provides the following dialog:



Organise Favourites

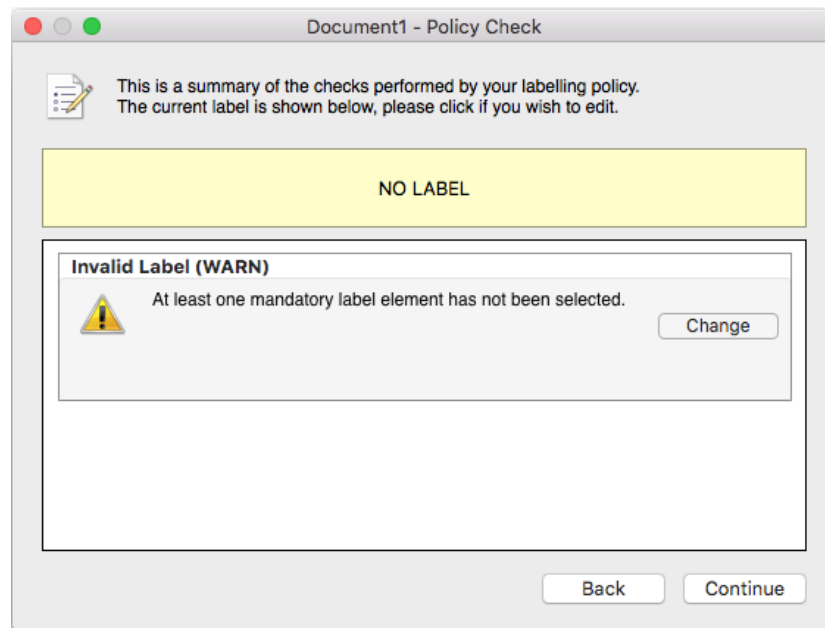
If favourites are available, then a **Favourites** button appears in the full label selection dialog.



Select Favourite

3.3.4 Policy Check Dialog

When a configured rule fires, the policy check dialog may appear as per the following example:



Policy check dialog

4 FUNCTIONALITY DETAILS

This section follows the structure of the Administration Guide indicating the features supported in Mac and Windows environments. In subsequent tables:

An entry of Yes means the feature is supported in both the Mac and Windows environment.

An entry of No means the feature is not supported in the Mac environment; it is only available in the Windows environment.

4.1 Common Label Handling Features

Feature	Supported by Classifier for Mac?
Label Propagation	Generally, this works the same as under Windows. However, the <u>SISL label cannot be written to messages</u> and therefore other features must be used (Subject / LLOT) to allow receiving applications to determine the label. Alternatively Exchange Classifier or Exchange Transport rules may be used.
Printable Labels Header / Footer / Watermark/ Field Codes / Portion Marks	<ul style="list-style-type: none"> Text Watermark is not supported under Word. Field Code markings are not supported. Portion Marking is not supported.
FLOT / LLOT Start or End of Subject / Portion Marks	<ul style="list-style-type: none"> Portion Marks are not supported.
Recognition of Received Label values	See label propagation above.
Mandatory Selectors	Yes
Default Label values	Yes
Insert Marking as Field Code (Word only)	No
Document Properties (Office Classifier)	Yes
Templates	Yes

4.2 Common Label Interface Options

Option	Supported by Classifier for Mac?
Label Selection Interfaces (Selectors and Values presented)	Yes
Ribbon Bar	No
Label Selection dialog	Yes
Favourites	Yes
Portion Mark	No
Recently Used Labels and Portion Marks	No
Single Click Operation	Yes
Assisted Labelling Operation	Yes
Tabs (defined via a policy)	Yes
Label Options Clear Default Link to Site Defined Help About Classifier Show Summary Marking	Clear is supported on Label dialog. Default is supported on Label dialog. Link to site defined Help is supported. About Classifier <u>is available from the MacOS menu</u> Show Summary Marking is not supported.
Folder View Labelling Operation	No
Text presented to the user can be configured	Yes

4.3 Audit Settings

Mac Classifier auditing operates as described in the main Administration Guide, but the Auditing will be directed as per [BJ Tracing and Event Logging](#).

The following audit settings are not relevant in the Mac environment:

- Always use SMTP addresses
- Author label change check
- Content Check
- Disable reply to all check
- File label addition / Change / Removal (File Classifier)
- Label Folder View
- Originator / Recipient Clearance check
- Recipient list addition check
- Suggested classification check
- Test mode auditing

4.4 Languages

The default language is English. User Interface definitions can be configured.

See the release note for the languages currently supported.

4.5 View Client Licence Status

Not supported in the Mac environment.

4.6 Image Library

Supported in the Mac environment.

4.7 User Message Library

Supported in the Mac environment.

4.8 User Interface Library

Supported in the Mac environment.

4.9 Selector Library

Supported in the Mac environment.

Note. Changes made to the text selector are applied when you move away from the field, i.e. tabbing or clicking somewhere else. This differs from Windows which updates as you type.

4.10 Marking Library

Supported in the Mac environment subject to:

- Word and Excel Headers/Footers do not support multiple fonts (colour / face / size).
- The Status document property is not supported.
- Environment variables in Marking formats are not supported.

4.11 Content Library

Content checking is not supported in the Mac environment.

4.12 Condition Library

The use of conditions is not supported in the Mac environment.

4.13 Classifier Application Settings

Key to annotations in columns:

Blank	Setting is not applicable to this application
Yes	Supported by that application in the Mac environment
No	The setting has no effect in the Mac environment

Setting	Outlook	Word	Excel	PowerPoint
Allow classification of meeting requests and appointments	No			
Allow classification of tasks	No			
Allow label change on protected documents		Yes		
Allow manual upgrade when sending messages	Yes			
Always use Distribution List clearances	No			
Apply Headers/Footers when label is changed			Yes	
Apply Headers/Footers when workbook is saved			Yes	
Automatically elevate email label (Note on Send only – not on Attach)	Yes			
Automatically update Label fields		Yes		
Custom format for 'Insert label'		No		
Custom format for 'Label' column	No			
Ensure attachment markings are consistent	Yes			
Ensure label dominates all portion markings	No			
Folder View Labelling	No			
Folder View column name	No			
Folder View column populate on start-up	No			
Force Summary Marking in task pane		No	No	No
Include embedded images when performing attachment checks	No			
McAfee Host DLP marking	No			
McAfee Host DLP scan	No			
Portion Marking	No	No	No	No
Process rules when exporting		Yes	Yes	Yes
Process rules when printing		Yes	Yes	Yes
Process rules when saving		Yes	Yes	Yes
Show Classifier on ribbon when reading	No			
Show 'Insert Label' context menu		No		
Show label dialog on Save or Print		Yes	Yes	Yes

Show label dialog on send	Yes			
Show label dialog style	Yes	Yes	Yes	Yes
Show label dialog when mandatory label	Yes	Yes	Yes	Yes
Show Summary Marking in task pane	No	No	No	No
Show Summary Marking in title bar		No	No	No
Update markings when indicated		Yes	Yes	Yes
Use default label when replying to unmarked emails	Yes			
Use From field for Originator clearance	No			
Warn if file contents cannot be accessed	No			
Watermarks use marking format font		No		

4.14 Label Locations

All Classifier applications should be configured to add a complete visual marking for the label and all Classifier applications should be configured to use **Label Locations** to determine the label by reading from that same visual marking. With regard to **Label Locations** handled by Classifier for Mac:

- A Classifier Label in the Document Property or Document Custom Property is supported.
- A Classifier Label in the First Line of Text (FLOT), Last Line of Text (LLOT) and email subject are supported.
- A Classifier Label cannot be set in an email transport header (X-Header), but X-Header values in received messages can be read.


It is important to note that Outlook in the Mac environment does not allow writing email transport headers (X-Headers). For labelling interoperability, all Classifier enabled email clients should be configured to read and write a label in the First Line of Text (FLOT), Last Line of Text (LLOT) or email.

4.15 General Settings

Key to annotations in columns:

Blank	Setting is not applicable to this application
Yes	Supported by that application in both the Mac and Windows environment
No	The setting has no effect in the Mac environment; it is supported only in the Windows environment.

Setting	Outlook	Word	Excel	PowerPoint
Automatically expand policy warning messages (Always expanded in the Mac environment)	No	No	No	No
Check Label Locations first	Yes	Yes	Yes	Yes
Classification History		No	No	No
Classification History Display (2010 or later)		No	No	No
Classifier ribbon group location	No	No	No	No
Content checking - case sensitive	No	No	No	No
Content checking - include document properties	No	No	No	
Custom format for 'Classifier Auditing'	Yes	Yes	Yes	Yes
Custom format for 'Label Summary' custom document property		Yes	Yes	Yes
Custom format for Portion marking	No	No	No	No
Custom format for Summary Markings	Yes	Yes	Yes	Yes
Disable OK on Label dialog if mandatory values are missing	Yes	Yes	Yes	Yes

Display of Favourites button	Yes	Yes	Yes	Yes
Display of Label Dialog launch button	No	No	No	No
Indicate mandatory selector check failures	No	No	No	No
Prompt for reason for ignoring policy warning - Superseded by Challenge options				
Show 'Help' button on ribbon bar	No	No	No	No
Show labeller 'Clear' button (<u>Label dialog only</u>)	Yes	Yes	Yes	Yes
Show labeller 'Default' button (<u>Label dialog only</u>)	Yes	Yes	Yes	Yes
Single Click best match	Yes	Yes	Yes	Yes
Summary Marking as black text on a white background	No	No	No	No
Text displayed when a distribution list fails to expand	Yes			
Text displayed when attachment check failed to complete	Yes			
Text displayed when Folder View labelling fails	No			
Text displayed when mandatory label is absent	Yes	Yes	Yes	Yes
Text displayed when originator check failed to complete	No			
Text displayed when prompting for a reason for ignoring policy warnings - Superseded by Challenge options				
Text displayed when recipient check failed to complete	Yes			
Text displayed when RMS protection failed to complete	No	No	No	No
Text displayed when S/MIME application failed to complete	No			
Text to display for notifying of policy checks performed	Yes	Yes	Yes	Yes
Text to display for resolution of policy issues	Yes	Yes	Yes	Yes
Text to display if attachment markings are inconsistent	Yes			
Text to display if no marking is available	Yes	Yes	Yes	Yes
URL for your labelling help site (the path will be subject to Mac environment syntax rules e.g. http://intranet/corporate/default.aspx or a regular web URL such as http://www.xyz.com should be fine; but if you point at a file the file will download rather than display the contents). If the supplied link is not valid then the help button  will not be displayed in the label dialog.	Yes	Yes	Yes	Yes

4.16 Policy Features

Feature	Supported by Classifier for Mac?
Policy Management	Yes
Maximum number of labels to show	No
User Selectable Default Classification	No
Use Assisted Labelling	Yes
Use Single Click with pre-defined labels	Yes
Show selector captions on the ribbon bar	No
Where possible wrap buttons at	No
Policy Label UI	Yes
Selector Properties Single Selection / Multiple Selection / Text entry / Date Picker / Date offset list	Yes
Retained selectors	Yes
Suggested Classifications	No
Rules Management	Yes

4.17 Rules

Key to annotations in columns:

Blank – Feature is not applicable to this application

Yes – supported in both the Mac application and the Windows application.

No – The feature is not supported in the Mac application; the feature is only supported in the Windows application.

Add rules (marking / metadata)	Outlook	Word	Excel	PowerPoint
Add a FLOT	Yes			
Add a LLOT	Yes			
Add to Subject here	Yes			
Add this X-Header (Mac Outlook does not support writing to email transport headers)	No			
Add attachment list (Attachment list format)	Yes			
Add these addresses	Yes			
Add a textbox on the header		No		
Add a textbox on the footer		No		
Add a textbox on the top				No
Add a textbox on the bottom				No
Add a header here (marking format limitations)		Yes		
Different 1st page		Yes		
Different odd/even pages		Yes		
Add a header (marking format limitations)			Yes	Yes
Different 1st page			No	
Different odd/even pages			No	
Add a footer here (marking format limitations)		Yes		
Different 1st page		Yes		
Different odd/even pages		Yes		
Add a footer (marking format limitations)			Yes	Yes
Different 1st page			No	
Different odd/even pages			No	
Smart selection			No	
Add an image into header		Yes		
Add an image to top of page				Yes
Add an image into footer		Yes		
Add an image to bottom of page				Yes
Add a watermark		No		
Add an image as a watermark		Yes		
Add this document property		Yes	Yes	Yes
Add this custom document property		Yes	Yes	Yes
Apply rules	Outlook	Word	Excel	PowerPoint
Apply S/MIME security	No			
Apply this Category	Yes			
Apply a delivery report request	No			
Apply a read receipt request	No			
Apply this priority value (Importance under Windows)	Yes			
Apply this sensitivity value (not supported by Outlook)	No			
Apply this expiry value (not supported by Outlook)	No			
Apply this RMS policy (not supported by Outlook or Office)	No	No	No	No
Check rules	Outlook	Word	Excel	PowerPoint
Check these mandatory selectors	Yes	Yes	Yes	Yes

Check for Author label change		No	No	No
Check for label change	Yes	Yes	Yes	Yes
Check for the high-water mark	Yes			
Check clearance for recipients (email domain clearance only)	Yes			
Check clearance for originator	No			
Check subject length does not exceed	Yes			
Check subject length exceeds	Yes			
Check message size	Yes			
Check content for this	No	No	No	No
Check number of recipients	Yes			
Check for these recipients	Yes			
Check for Reply to All response	No			
Check for use of default label	Yes	Yes	Yes	Yes
Check with the user	Yes	Yes	Yes	Yes
Check these selectors for expired dates	Yes	Yes	Yes	Yes
Check for additional recipients on reply or forward	No			
Check for these unlabelled attachments	Yes			
Check for a suggested classification	No	No	No	No

Notes:

1. If you create a document with a Classifier Header / Footer and then perform a **Mail Merge**, the header/footer is updated with the current marking. Any subsequent change to the classification will have no effect on the header/footer presented. This is different to Classifier in the Windows environment which is able to maintain the header/footer information as a field code and thereby respond to subsequent changes in classification. In the Mac environment, Classifier is unable to modify the standard Mail Merge sequence.
2. If a **Mail Merge** is performed in word, and the document does not yet contain any header/footer, then Classifier add header/footer rules may add an empty paragraph to the header/footer (blank line).
3. A **Check these mandatory selectors** rule is not triggered when saving embedded documents.
4. Classifier for Mac Word does not recognize text boxes in headers or footers nor will it attempt to write text boxes to headers or footers. For instance, if text-boxes have been placed in the document by windows classifier, Mac Classifier will not be able to update the label in that text box when a new label is applied to the document.

4.18 Clearance Features

Feature	Supported by Classifier for Mac?
Domain Clearance	Yes but note that distribution lists are not expanded, and the distribution list address will be used if Domain Clearance is enabled.
Dynamic Clearances	No

4.19 Configuration Deployment

Configuration must be retrieved from file store or web. It cannot be retrieved from the Windows Active Directory.

The Classifier windows registry settings are supported by extension of the **Classifier.plist** file content. The installation provides a sample file; refer to the Release Note for further details.

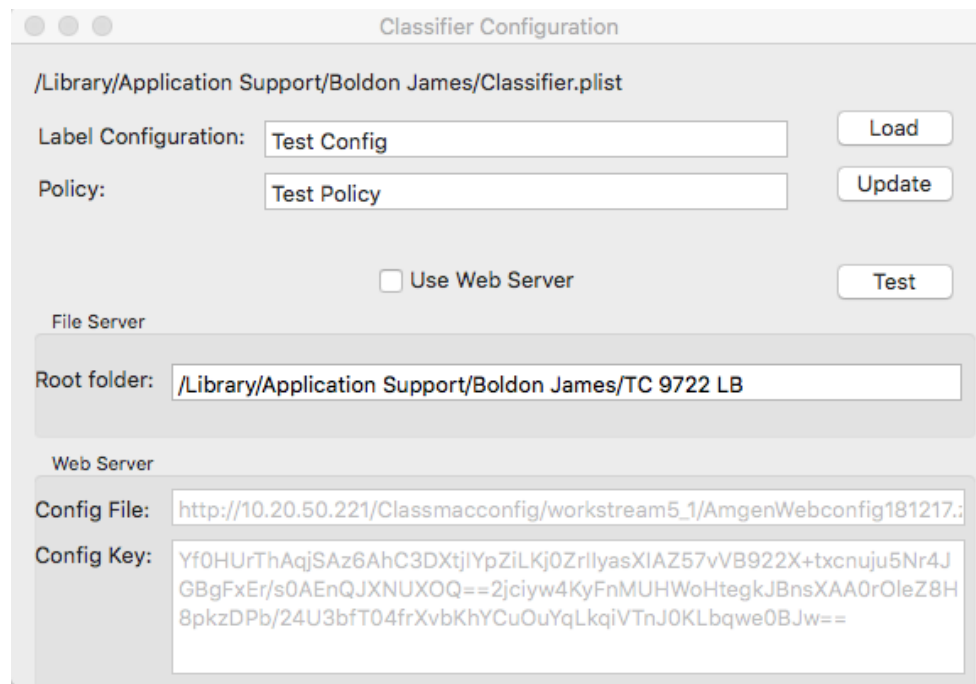
4.19.1 Classifier Configurer

A **Classifier Configurer** application is delivered into the following folder:

/Library/Application Support/Boldon James/Classifier

Use this tool to configure the settings in the following file:

/Library/Application Support/Boldon James/Classifier.plist



Classifier Configurer

If you make any changes to the current settings, you should press the **Update** button to save those changes.

Use the **Test** button to perform validity checks on the contents.

Note: Path names within the plist file are case sensitive. The plist file contains XML and as such, certain characters must be escaped. For example, the ampersand character should be **&**; and less-than character should be **<**; If you use the **Classifier Configurer** tool to edit settings (rather than hand editing the XML) these characters will be automatically handled.

The following Classifier registry entries are not supported in the Mac environment:

- OutlookPolicy – use standard policy
- AllowClassificationHistoryClear – Classification history not supported
- HWMCheckEmbeddedOfficeDocuments – Embedded documents are not checked.
- IgnorePasswordProtectedZips – Warnings will appear if relevant.
- None of the settings to Auto Enable Microsoft Office Header / Footer controls are supported. The defaults apply.

If a remote server holds the Classifier configuration then establish a suitable share to the remote server (e.g. [\\apps\Dispoint](#)). This share appears below `/Volumes` and the entry in `classifier.plist` can be set to `/Volumes/Dispoint/Classifier Configuration` for example.

4.20 Central Management of Configuration and Software

Use Industry standard software management tools such as Casper for the central management of Classifier software (providing features equivalent to Windows Group Policy distribution).

4.21 Label Propagation Mechanisms

Label propagation mechanisms are supported, but with some limitations.

- Unlike the Windows Outlook product, Mac Outlook does not support writing to email transport headers. Hence, Classifier cannot store any label information in x-headers.

For labelling interoperability, Mac Classifier (Outlook) should be configured to add a complete visual marking for the label and all Classifier email clients should be configured to read the label from multiple **Label Locations**. Alternatively, Exchange Classifier or Exchange mail flow rules might be deployed to add such markings to Email from Windows to Mac environments.

Propagation of properties (e.g. Author, Subject, Title, keywords or comments) when saving or exporting as PDF from Office applications is **NOT** supported.

- Only the following file extension types are currently supported for attachment checking:
 - Office 2003 and 2007 supported applications (e.g. Doc and Docx). Note that support for 2003 requires an additional install action as described in the product Release Note.
 - HTML
 - Open Office
 - PDF
 - ZIP
 - EML
 - JPEG

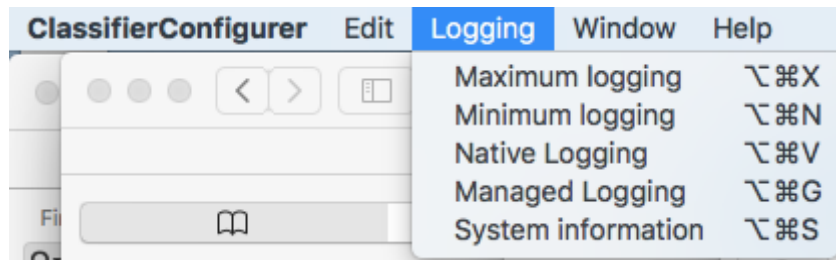
4.22 BJ Tracing and Event logging

There is no Boldon James trace (BJTrace) application in the Mac environment, the control of logging levels is managed as described below.

By default, all logging is directed towards the system log, which can be viewed using the console application. However, by default this will not display the lower levels of Mac logging (INFO / DEBUG) which broadly cover the logging levels 'Data/Function entry/Function exit/Major/Minor'.

The entries within the logs are similar to those seen via the Windows Event log. In particular, the same event ids and categories are used.

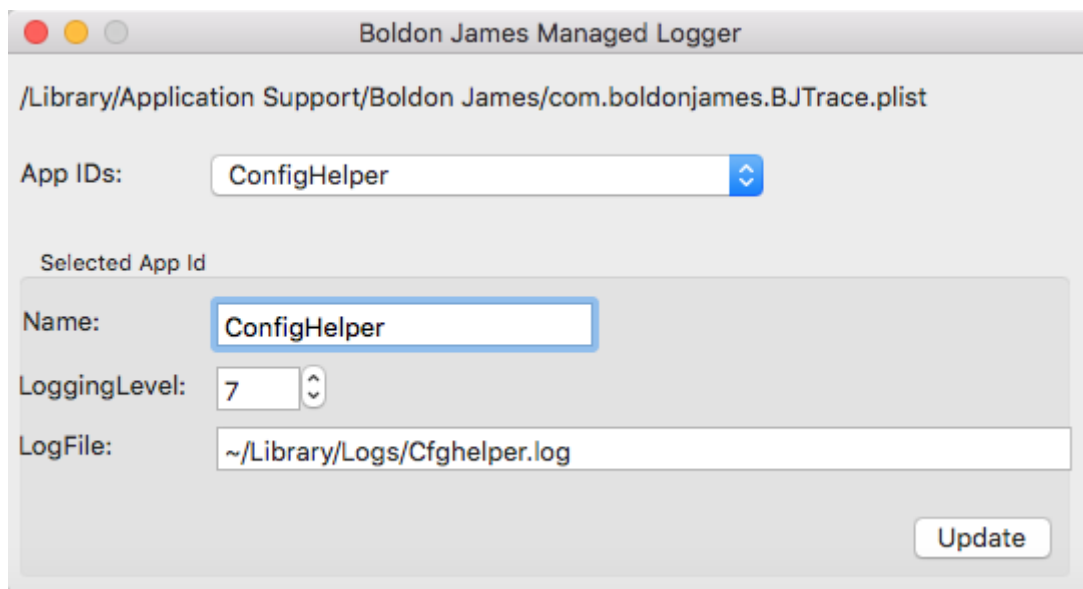
The **Classifier Configurer** Logging menu provides various actions:



Logging Menu

4.22.1 Managed Logging

This action displays the following:



Managed Logger

App IDs Each Classifier component has its own logging controls.

LoggingLevel An integer value, from 1 to 7. Seven represents the most verbose level of logging (==DEBUG); level three is sufficient for most logging requirements.

LogFile If a value is specified for this option, then the logging output will be appended to the file content. The file will be created if not present. However, any missing folders in the path will not be created, so you must ensure the folder path exists. We recommend using the default value provided; the log file will automatically appear in the left-hand pane of the Console under the ~/Library/Logs area.

Maximum logging provides a shortcut to just set the LoggingLevel to 7 for all Classifier logging components.

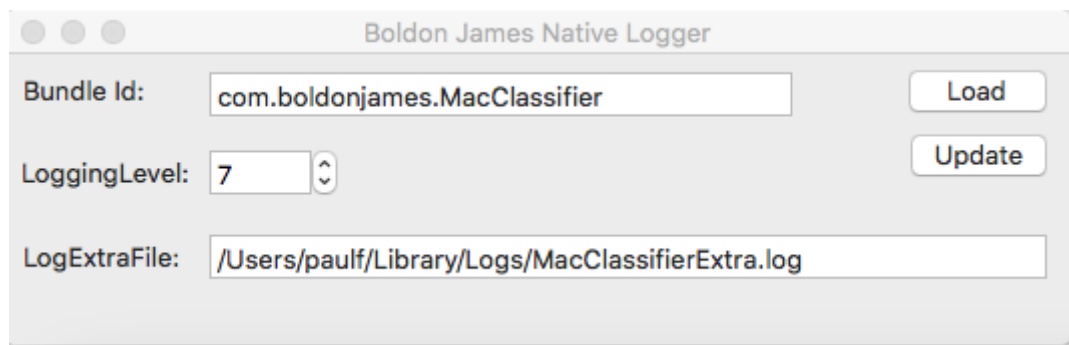
Minimum logging provides a shortcut to just set the LoggingLevel to 1 for all Classifier logging components.

The settings are actually stored in

/Library/Application Support/Boldon James/.com.boldonjames.BJTrace.plist

4.22.2 Native Logging

This action displays the following:



Native Logger

Note: If using ~ in the path above, do not enclose the path name in double-quotes, as the results can be unpredictable.

LoggingLevel	An integer value, from 1 to 7. A value of seven represents the most verbose level of logging (==DEBUG); level three is sufficient for most logging requirements.
LogExtraFile	A string value, specifying the output file name. If you use the convention of the default value, with a folder path of ~/Library/Logs, and a file name extension of .log, then that log file should automatically appear in the left-hand pane of the Console under the ~/Library/Logs area.

4.22.3 Native logging (Sierra)

The logging facilities described above should be sufficient for most purposes, but the following is provided for information.

The Console application and logging behaviour has changed in Sierra. You can still create and save queries in the Console, using the 'Search' field and 'Save' button in the top right of the window. However, it seems that 'standard' users cannot view the Log content in the Console as before.

A useful command-line utility called 'log' can be used to obtain more logging information. However, for some of the operations, the user has to be a member of the **sudo** group (which typically includes admin users).

To get MacClassifier logging displayed 'live' in a terminal window as a standard user on Sierra:

- First, ensure the defaults settings for MacClassifier have been set as described earlier.
- Start Mac Classifier.
- Open a terminal window.
- **Su** to an admin user.
- Run the following command:

```
Log stream -level info -predicate 'process contains "Mac Classifier"'
```

- You need to type in Control-C to stop the live streaming in the terminal window.

- You may have to explicitly select the 'Info' and 'Debug' logging levels; which should be possible by selecting the menu items from the Console 'Action' menu.

You can then run `sudo log` with various parameters to interrogate the logging database. Useful examples include:

- `Sudo log collect --last 10m --output ~/Library/Logs/mylog.logarchive`

This example will save the last 10 minutes of logging to the specified file. Files with extension `.logarchive` can be viewed using the Console. Be aware that if you have switched to a different user to run the command, then the `~` will apply to that user's local store)

- `Log show --predicate 'process contains "Mac Classifier"' --last 30m --info`

This example will output to the terminal window the last 30 minutes of logging from the Mac Classifier process, including info level messages.

You can access the log help page using the command `log help`

4.22.4 Native logging (High Sierra)

The logging facilities described above should be sufficient for most purposes, but the following is provided for information.

Using the Console, you can create queries to filter for logging items of interest.

If you right-click on a Mac Classifier entry and select **show process 'Mac Classifier'** from the menu, you can then save that query by clicking on the **Save** button near the top right of the Console.

You can further refine that filter; we recommend choosing the option to **Hide Library 'AE'** in order to get rid of a number of spurious Apple Event messages that may appear.

You can use the Action menu **Include debug messages** to display debug-level log messages in the Console.

4.22.5 Other useful commands related to terminal logging

To delete any existing Diagnostics dictionary section use the following command:

```
defaults delete com.boldonjames.MacClassifier Diagnostics
```

To create a new Diagnostics dictionary section containing two settings in one operation use:

```
defaults write com.boldonjames.MacClassifier Diagnostics -dict
LogLevel -int 7 LogFile -string ~/Library/Logs/macclassifier.log
```

4.23 Event Logging

On the Mac, the Boldon James Event Logging output is directed into a file named `~/Library/Logs/BoldonJamesEventLogging.log`.

The file can be viewed using the Console application.

It contains the same information as output into the Windows event log by Windows Classifier, except that the event details are output as a block of XML following the 'General' event description.

5 INTERWORKING WITH WINDOWS CLASSIFIER APPLICATIONS

Documents and emails classified using Mac Classifier will interwork with Windows Classifier and vice-versa. However, the fact that Outlook for Mac does not allow Mac Classifier to set an X-header property must be taken into account if interworking with Classifier Windows environments. For example, a label could be added as the First Line of Text (FLOT), or Exchange Classifier could be deployed.

There is no equivalent to File Classifier or Power Classifier in the Mac environment. But Classifier Word etc. will respond to any Refresh markings set by File Classifier under Windows.

See also [Label Propagation Mechanisms](#) for information on attachment type support.

6 AUDITING NOTES

- The **Check rule** Challenge dialog is shown, but the user's choice is not audited.
- A Save (new document) or Save As event will audit the name of the file at the time the action is invoked rather than the name of the file at the point it is actually saved (after the user has supplied a file name).