



A guide to deploying the PQF Viewer in your Standard Operating Environment (SOE)

This document details the steps required to deploy Dolphin Software's PQF Viewer (HTTP-Post Version) as part of your Standard Operating Environment (SOE).

The document deals first with background factors and outlines the three requirements for normal SOE deployment.

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1 Background

1.1 PQF Viewer Executables for email transport types

Currently there are 5 separate Windows based PQF Viewer executables, one for each major email transport type as follows

PQF-MAPIEx.exe	Microsoft Outlook Professional
PQF-NOTES32.exe	IBM Lotus Notes
PQF-MAPI32.exe	Novell GroupWise
PQF-SMTP32.exe	Microsoft Outlook Express, Netscape Messenger, Pegasus, etc (SMTP)
PQF-HTTP32.exe	Browser based email – Yahoo, Hotmail, AOL, Gmail, etc

1.2 Licensing requirements

The PQF Viewer is provided at no charge. It can be freely copied, installed, emailed, placed on web sites for FTP downloads, etc, in either its raw executable form or in its InstallShield packaged form (available from www.pqf.com). The only stipulation is that the PQF Viewer's executable must be installed with its licence file ("PQF_Viewer_License.PDF"). Note: the InstallShield packaged form inherently installs the license file with the executable.

1.3 Location of the PQF Viewer Executable

The typical / default (using the InstallShield package) location for the PQF Viewer executable is the "C:\Program Files\DolphinSoftware\PQF Viewer" folder.

The executable folder should also contain the licence file ("PQF_Viewer_License.PDF") and the PQF Viewer's INI file.

1.4 Minimal impact on target PCs

The PQF Viewer uses an INI rather than registry settings to enable it to easily function on heavily 'locked down' systems.

The only reliance on registry settings for the PQF Viewer to function are the '*.PQF' file extension shell (launch) registry entries (HKEY_CLASSES_ROOT) which enables the PQF Viewer to launch when a user double-clicks on a PQF file.

The PQF Viewer can reset its file extension '*.PQF' shell launch settings if they are 'broken', by simply getting the user to run the PQF Viewer from the 'Start' menu. To enable this facility, PQF Viewer requires access to the HKEY_CLASSES_ROOT section of the registry.

This function may be inhibited through the PQF Viewer's INI settings if no access to the HKEY_CLASSES_ROOT section of the registry is preferred.



2 Normal SOE Deployment

For normal deployment the PQF Viewer requires 3 changes to the target system:

- 1) Start menu entry
- 2) '*.PQF' file extension shell (launch) registry entries
- 3) PQF Viewer's INI file settings set to match the particular email transport used

2.1 Start Menu Entry

The PQF Viewer 'Start' menu entry is installed on an individual user basis rather than the 'All Users' or 'Default User' entries. The location of the 'PQF Viewer.LNK' (short-cut file) is therefore "C:\Documents and Settings\USER_ID\Start Menu\Programs" (where 'USER_ID' is the ID / name of the users account).

The 'PQF Viewer.LNK' short-cut file contains two properties:

- 1) Location of the Target - "C:\Program Files\DolphinSoftware\PQF Viewer\PQF_XXXX.exe" where 'PQF_XXXX.exe' is the particular email's PQF Viewer (see above).
- 2) Run as "Normal window"

2.2 The '*.PQF' file extension shell (launch) registry entries

There are two entries required in the HKEY_CLASSES_ROOT section of the registry:

- 1) The file extension key ".pqf":
 - has the value "PortableQuestionnaireFormat.Document"
- 2) The document type's shell entry key "PortableQuestionnaireFormat.Document":
 - has the value "Portable Questionnaire Format Document"
 - has the sub-key "shell\open\command", which:
 - has the value "C:\\PROGRA~1\\DOLPHI~1\\PQFVIE~1\\PQF_XX~1.EXE \"%1\""
 - or "C:\Program Files\DolphinSoftware\PQF Viewer\PQF_XXXX.EXE \"%1\""where 'PQF_XXXX.exe' is the particular email's PQF Viewer (see 1.1 above).

Creating sample '*.PQF' shell launch registry entries:

To generate the file extension '*.pqf' shell (launch) registry entries:

- 1) Create the 'C:\Program Files\DolphinSoftware\PQF Viewer' folder
- 2) Copy in the following 3 files:
 - The PQF Viewer executable (PQF_HTTP32.exe).
 - The PQF Viewer's license (PQF_Viewer_License.PDF).
 - The PQF Viewer's profile file (PQF_HTTP32.INI).
- 3) Run the PQF Viewer executable with the following command line flag(s):
 - **/Register** causes the PQF Viewer to register its 'shell\open\command' location in the HKEY_CLASSES_ROOT section of the registry (see below for details). The /Register flag prints to the console the registry changes it makes.
 - **/Silent** used in conjunction with /Register inhibits printing the output to the console.

2.3 The PQF Viewer's INI file settings

The PQF Viewer's INI settings vary in accordance with the email transports the PQF Viewer is designed to work with.

This document details the HTTP-Post settings.



3 The PQF Viewer's 'Auto-Find' Feature

The 'Auto-Find' has been written for the two main corporate email transports Outlook (Professional) and IBM Lotus Notes. 'Auto-Find' is not applicable to the HTTP-Post version of the PQF Viewer as it will work as long as the Windows Socket system is running and as long as an HTTP-Post is allowed.

3.1 Action taken by PQF Viewer on encountering a later version of a PQF File

Each version of the PQF Viewer is 'aware' that it may encounter a newer version of its own file format. Previously V1.0 of the PQF Viewer issued a simple one line warning message that was able to be customised by the SOE implementers, controlled by the PQF Viewer's INI setting 'NewVersionMessage=' (see INI appendices below).

PQF Viewer V2.0 extends this facility by also sending a standard alert email to a customisable email address. The alert email contains a standard PQF Viewer response attachment as well as equivalent body text information, so that the alert message may be automatically collated into any database, and/or read by a human being.

All parameters required to control the alert message are set by new PQF Viewer INI fields, all of which contain the prefix 'NewVersion' (see following and Appendix).

4 Recommended PQF Viewer .INI settings

Below are the typical PQF Viewer .INI settings recommended by Dolphin Software. For detailed settings (see Appendix).

4.1 For HTTP-Post SOE 'PQF_HTTP32.INI' settings:

In the [Viewer_Options] Section – set as follows:

Reinstallation=0

AutoFindMailTransport=0

RunningAsPartOfSOE=1

InhibitRegistryUpdate=0

NewVersionMessage=Please contact the Help Desk on

NewVersionAlertEmailName=HelpDesk

NewVersionAlertEmailAddress=HelpDesk@outsourcer.com

NewVersionAlertEmailSubject=PQF Viewer - New Version Encountered Alert Message

NewVersionAlertInstructions=Contact, Check procedure #xxxx

In the [HTTP_Server] Section – set as follows:

HTTP_Server=www.dolphinsoftware.com.au

HTTP_ProgPath=cgi-bin/httppost.pl

ReplyAddress=UsersEmailAddress@UsersDomain

DisplayName=UsersEmailDisplayName

Change the above two entries to the appropriate Users Data

In the [Viewer_Transport] Section – set as follows:

PQF_EmailTransportType1=6

In the [HTTP_Library] Section – set as follows:

HttpUseAdditionalPath=1

HttpAdditionalPath= %windir%\system32

Change the 'HttpAdditionalPath' to point to the actual location of the 'ws2_32.dll' (Windows Sockets Library).

In the [Http_ini_File] Section – set as follows:

IniUseExistingPath =1

Appendix: Detailed PQF Viewer .INI file entries

1. PQF Viewer's INI file entries for HTTP-Post (Web-Mail)

The following table details the parameters used in the PQF Viewer's INI file for an HTTP-Post (Web-Mail) system.

[Viewer_Options]		
*	Reinstallation = 0	If '1', forces a new configuration run when program started - should always be '0' in SOE install as SOE install uses 'AutoFindMailTransport' feature – see below
*	InhibitRegistryUpdate = 0	If '1', forces a branch around the ".PQF" file-extension shell execute registry update - <u>should always be '0' in SOE install</u> unless program access to HKEY_CLASSES_ROOT section of registry is locked-out, in which case the ".PQF" file-extension shell execute entries in the registry must be correctly set by the outsourcer <u>prior to the first run of the PQF Viewer executable</u> (which typically initiates the 'Auto-Find' routines).
*	AutoFindMailTransport = 0	If '1', causes 'auto-find' to run every time, but if 'auto-find' fails to find IBM IBM Lotus Notes running it will use the previous INI settings - useful for IBM IBM Lotus Notes LapTop users for different 'Locations', or if IBM IBM Lotus Notes changes are pending, or if maintenance subies are unreliable or for any system instability(minimal overhead involved in running 'auto-find' every time PQF Viewer starts; If '2', causes 'auto-find' to run once and if successful reset itself to '0' and write its profile file - typically set to '1' in SOE install - only set to '2' if nothing is likely to change.
+	NewVersionMessage =	If empty, issues the standard PQF file newer version found message: "Please contact your administrator for the latest PQF Viewer." Insert a single line message for user action to take if a newer version of a PQF file is encountered (ie "Phone HelpDesk xxx etc")
+	NewVersionAlertEmailName =	Used in conjunction with 'NewVersionAlertEmailAddress'. If empty 'NewVersionAlertEmailAddress' is used as the name.
+	NewVersionAlertEmailAddress =	If empty, will send alert email to pqf.com, else will send an alert email message to this address (with 'NewVersionAlertEmailName' used as name) and to pqf.com (unless contraindicated by the 'NewVersionNoAlertToDolphin' flag).
+	NewVersionAlertEmailSubject =	If empty, uses the standard email alert subject line : "PQF Viewer - New Version Encountered Alert Message" Insert a single line for a custom email alert subject if required.
+	NewVersionAlertInstructions =	Default is blank. Insert a single line of text for a custom additional instructions if required - ie an internal direction to contact xxxxxx in dept zzzzzzz, or phone extension nnnnnnn, or don't forget to xxxxxxxxx, etc
	NewVersionNoAlertToDolphin = 0	If set to '1', no email alert will be sent to Dolphin Software staff via pqf.com. Note, however that this flag is ignored if the 'NewVersionAlertEmailAddress' field is empty - ie an email alert must be sent to someone if a newer version of the PQF document is encountered.
*	RunningAsPartOfSOE = 1	If '1' inhibits the 'auto-find' Wizard if problems occur on start-up - should always be '1' in SOE install.

[Viewer_Transport]		
*	PQF_EmailTransportType1 = 6	'6' = HTTP-Post
	PQF_EmailTransportType2 = -1	Not Used
	PQF_EmailTransportType3 = -1	Not Used

* PQF_EmailTransportInstall = 0	If '1' forces a new configuration run when program started – should always be '0' in SOE install.
PQF_EmailTransportPath =	Not Used

[HTTP_Server]

* HTTP_Server= www.dolphinsoftware.com.au	Must point to www.dolphinsoftware.com.au to process the HTTP-Post into and SMTP email to return response back to collator email address.
* HTTP_ProgPath= cgi-bin/httppost.pl	Must name the CGI routine cgi-bin/httppost.pl to process the HTTP-Post into and SMTP email to return response back to collator email address.
* ReplyAddress = USER's eMAIL ADDRESS	User's email Address must go here to enable collation confirmation responses to be returned to the user.
* DisplayName = USER's DISPLAY NAME	User's email Display Name (or repeat of email address) must go here to enable collation confirmation responses to be returned to the user

[Version]

PQF_ReleaseDate = 3-Jul-2006	Release Date of executable - Informative only - Read but not used by application
PQF_FileVersion = 2.00	PQF File Version level expected - Informative only - Read but not used by application
PQF_ViewerVersion = 2.10.00	Version of executable - Informative only - Read but not used by application
PQF_DocumentVersion = 66	PQF File Version internal structure code expected - Informative only - Read but not used by application
* PQF_EmailTransportType = 6	'6' = HTTP-Post
* PQF_EmailTransportSubType = 0	'0' = Default Sub-Type

[HTTP_Library]

Library32Path = %windir%\system32	Location of the 'WS2_32.DLL'
HttpUseRegistryPath = 1	If '1' indicates registry entry for the location of the 'WS2_32.DLL' is correct; if '0' then the 'HttpUseAdditionalPath' should be set to '1'
* HttpUseAdditionalPath = 1	If '1' indicates the 'HttpAdditionalPath' contains the location of the WS2_32.DLL'
* VimAdditionalPath =windir%\system32	If HttpUseAdditionalPath = '1' then 'HttpAdditionalPath' contains the location of the WS2_32.DLL'LL' (if the Registry is incorrect)
ActualLibraryDLL =ws2_32.dll	Name of the required DLL file – always ' WS2_32.DLL '

[Http_ini_File]

* IniUseExistingPath = 1	Unused. 1 indicates the default setting. For SOE the 'IniUseAdditionalPath' should be set to 1
IniUseAdditionalPath = 0	Unused. For SOE the 'IniUseAdditionalPath' should be set to 0'
IniAdditionalPath =	Unused. For SOE the 'IniAdditionalPath' should be left blank.
ActualIniFile = http32.ini	Unused. Default is 'http32.ini'
* Additional fields suggested for SOE install	