

Prospective Software Validation

Software validation provides documented evidence that software performs as intended. QW 6.0 version **6.0.0.728** has been validated per the protocol established by Busitech and agreed to by its primary customer representatives. Any discrepancies discovered in the validation process that could not be resolved by the product release date will clearly be identified in the validation report and corrected in future versions.

QW 6.0 is highly configurable to the customer's application. Some customers also develop custom installation programs (for example, with customer defined calculations). The customer may need to also validate their installation and application of QW 6.0 version **6.0.0.728**, particularly when QW 6.0 version **6.0.0.728** is used directly in the control of regulated products. This additional validation, if needed, is the responsibility of the customer.

Busitech provides this validation so that customers can have confidence in Busitech products and comply with their needs to use validated software.

Busitech programming code is proprietary to Busitech and not available for customer review. All code is based on Visual Basic 6, a commercially released Microsoft language and fully compatible with Windows 10.

Validation Process

The validation protocol (also known as a test plan) lays out the tests and success criteria required by the validation process. Validation testing is typically organized into 3 steps:

INSTALLATION QUALIFICATION (IQ)	- static checks
OPERATIONAL QUALIFICATION (OQ)	- dynamic testing
PERFORMANCE QUALIFICATION (PQ)	- application verification

Busitech only does IQ and OQ. PQ if necessary is the responsibility of the customer.

The validation report presents the test data relative to success criteria and documents any discrepancies.

The validation process is repeated with each released version. Busitech maintains the right to shorten the validation process or reapply the previous validation when programming changes are known to have not changed specific areas of the program, as is the case with some maintenance releases.

Validation Protocol

Installation Qualification (IQ)

Objectives and Success Criteria

The installation program provided by Busitech will ensure that

- All the right programs (of the right version) are in the right folders.
- All the Busitech components (dll's and ocx's) are in the right folders.

Key risks

- Wrong file versions are installed.
- Necessary files are not successfully installed.
- Note: the customer may choose to not use the Busitech install program or the customer may tamper with the files after installation. These changes are the responsibility of the customer to validate.

Steps & Checks

1. The software will be installed onto a PC (which does not currently have QW 6.0 installed) using the Busitech install program.
2. All files will be verified (relative to a master file list) as to their presence, location, version number and compile date. Note that the user can choose to change the default location and name of the folders.
3. A listing of Busitech installed files will be included in the validation report, showing the version number and compile date of each program.

Validation Report

Installation Qualification (IQ)

Objectives and Success Criteria

The installation program provided by Busitech will ensure that:

- All the right programs (and versions) are in the right folders.
- All the Busitech components (dll and ocx) are in the right folders

Steps & Checks

- The software will be installed onto a PC (which does not currently have QW 6.0 installed) using the Busitech install program. (Completed by Noel Windle October 25, 2022)
- All files will be verified as to their presence (relative to a master file list), location and compile date. (Completed by Noel Windle October 25 2022)

All programs and files will be verified (relative to a master file list) as to their presence, location, version number and compile date.

Existing files are overwritten only if Date, Time and internal version numbers of the files being installed are newer.

A listing of Busitech installed programs and files is shown below:

Filename	Version	Date
Installed in C:\PROGRAM FILES (X86)\BUSITECH\QW6\		
QW6.EXE	6.0.0.728	2022-10-18 10:36:56
QW6ADD.EXE	6.0.0.8	2022-10-18 10:37:16
QW6BACKUP.EXE	6.0.0.94	2022-10-18 10:37:02
QW6BATCHECK.EXE	1.0.0.0	2022-10-18 10:37:28
QW6CHECK.EXE	6.0.0.92	2022-10-18 10:37:02
QW6DATACLIENT.EXE	6.0.0.5	2022-10-18 10:37:14
QW6DEBUG.EXE	6.0.0.39	2022-10-18 10:37:14
QW6FILEPACK.EXE	6.0.0.107	2022-10-18 10:37:02
QW6LAUNCHTRAY.EXE	6.0.0.136	2022-10-18 10:36:54
QW6REPORT.EXE	6.0.0.75	2022-10-18 10:37:02
QW6RS232.EXE	6.0.0.74	2022-10-18 10:37:12
QW6SHAREDCONFIG.EXE	6.0.0.99	2022-10-18 10:37:02
QW6SPECMANAGER.EXE	6.0.0.39	2022-10-18 10:36:52
QW6SQLWIZ.EXE	6.0.0.94	2022-10-18 10:37:00
QW6SUMSTAT.EXE	6.0.0.106	2022-10-18 10:37:14
QW6TESTIO.EXE	6.0.0.6	2022-10-18 10:37:30
QW6VERSION.EXE	6.0.0.17	2022-10-18 10:37:14
QW6XLTOQW.EXE	6.0.0.108	2022-10-18 10:36:58

QW6XML.EXE	6.0.0.1	2022-10-18 10:37:12
QW6ADMIN.EXE	6.0.728.0	2022-10-18 10:36:56
QW6DOCUMENTER.EXE	6.0.0.35	2022-10-18 10:36:54
QW6MERGE.EXE	6.0.0.104	2022-10-18 10:36:54
QW6POPUPEDITOR.EXE	6.0.0.87	2022-10-18 10:36:54
QW6REBUILD.EXE	6.0.0.0	2022-10-18 10:37:30
QW6RS232ADMIN.EXE	6.0.0.9	2022-10-18 10:36:54
QW6SCHEDULE.EXE	6.0.0.91	2022-10-18 10:36:52
QW6TRIGGER.EXE	6.0.0.21	2022-10-18 10:37:30
QW6UTILITIES.EXE	6.0.0.114	2022-10-18 10:36:52
QWBATCHMOVE.EXE	1.0.0.0	2022-10-18 10:37:10
Installed in C:\PROGRAM FILES (X86)\BUSITECH\QW6\BIN\		
BUSITECH.QUALITYWINDOW.DOMAIN.DLL	6.0.0.0	2022-10-18 10:37:28
BUSITECH.QUALITYWINDOW.MODELS.DLL	6.0.0.0	2022-10-18 10:37:28
BUSITECH.QUALITYWINDOW.SECURITYDOMAIN.DLL	6.0.0.0	2022-10-18 10:37:28
BUSITECH.QUALITYWINDOW.SECURITYMODELS.DLL	6.0.0.0	2022-10-18 10:37:26
CSVHELPER.DLL	15.0.0.0	2022-10-18 10:37:28
ICSHARPCODE.SHARPZIPLIB.DLL	1.3.1.9	2022-10-18 10:37:26
INTEROP.MSSCRIPTCONTROL.DLL	1.0.0.0	2022-10-18 10:37:10
INTEROP.QWACCESS60.DLL	2.4.0.0	2022-10-18 10:37:10
INTEROP.QWAPPCONFIG60.DLL	1.2.0.0	2022-10-18 10:37:08
INTEROP.QWDLG60.DLL	1.4.0.0	2022-10-18 10:37:08
INTEROP.QWLICENSE60.DLL	1.1.0.0	2022-10-18 10:37:08
INTEROP.QWREP60.DLL	1.5.0.0	2022-10-18 10:37:08
INTEROP.QWSELECT60.DLL	2.2.0.0	2022-10-18 10:37:08
INTEROP.QWTOOL60.DLL	2.2.0.0	2022-10-18 10:37:08
INTEROP.VBA.DLL	6.0.0.0	2022-10-18 10:37:08
QW6COMSECURITY.DLL	6.0.0.0	2022-10-18 10:37:26
QW6CONTROLS.DLL	6.0.0.0	2022-10-18 10:37:26
QW6HELPLIBRARY.DLL	6.0.0.1	2022-10-18 10:37:08
QWACCESS60.DLL	6.0.0.233	2022-10-18 10:37:08
QWAPPCONFIG60.DLL	6.0.0.63	2022-10-18 10:37:08
QWCOMSRV60.DLL	6.0.0.111	2022-10-18 10:37:10
QWDLG60.DLL	6.0.0.193	2022-10-18 10:37:08
QWLAUNCH60.DLL	6.0.0.102	2022-10-18 10:37:06
QWLICENSE60.DLL	6.0.0.163	2022-10-18 10:37:06
QWLOGVIEW60.DLL	6.0.0.96	2022-10-18 10:37:06
QWMATH60.DLL	6.0.0.1	2022-10-18 10:37:06
QWREP60.DLL	6.0.0.127	2022-10-18 10:37:06
QWSELECT60.DLL	6.0.0.244	2022-10-18 10:37:06
QWSENDMAIL60.DLL	6.0.0.1	2022-10-18 10:37:06
QWSQL60.DLL	6.0.0.97	2022-10-18 10:37:06

QWTEXT60.DLL	6.0.0.79	2022-10-18 10:37:04
QWTOOL60.DLL	6.0.0.127	2022-10-18 10:37:04
SCILEXER.DLL	3.2.3.0	2022-10-18 10:37:04
SCILEXER64.DLL	3.2.3.0	2022-10-18 10:37:04
SCINTILLANET.DLL	3.0.1.0	2022-10-18 10:37:04
QWFILELOCK60.EXE	6.0.0.0	2022-10-18 10:37:10
QWASYNWORKER.OCX	1.0.0.0	2022-10-18 10:37:12
QWCHARTS60.OCX	6.0.0.366	2022-10-18 10:37:12
QWPACIFIER60.OCX	6.0.0.68	2022-10-18 10:37:12
QWPOPUP60.OCX	6.0.0.2	2022-10-18 10:37:10
QWREPORT60.OCX	6.0.0.115	2022-10-18 10:37:10
QWTOOLTIP.OCX	1.0.0.0	2022-10-18 10:37:10
QWUPDATE60.OCX	6.0.0.196	2022-10-18 10:37:10
QWVARINFO60.OCX	6.0.0.106	2022-10-18 10:37:10
Installed in C:\PROGRAM FILES (X86)\COMMON FILES\BUSITECH\		
CHILKATMHT.DLL	9.3.1.0	2022-10-18 10:36:50
CWSVC32.OCX	2.0.0.0	2022-10-18 10:36:50
FILEV012.OCX	13.0.0.0	2012-08-03 14:14:56
FLDRV012.OCX	13.0.0.0	2012-08-03 14:14:26
HDSECOMPRESSION.DLL	2.3.0.8	2022-10-18 10:37:16
HTMLCONVERTER.DLL	2.5.0.140	2022-10-18 10:37:22
OPCDAAUTO.DLL	2.0.0.3	2022-10-18 10:37:24
SHCMB012.OCX	13.0.0.0	2012-08-03 14:15:24
SSSPLT30.OCX	3.0.3.8	2002-03-04 17:49:12
VBSENDMAIL.DLL	3.6.0.5	2022-10-18 10:37:26
VSFLEX7L.OCX	7.0.1.151	2002-03-22 15:40:52
VSFLEX7N.OCX	7.0.0.131	2001-07-31 12:57:24
VSFLEX7U.OCX	7.0.0.144	2022-10-18 10:37:26
Installed in C:\WINDOWS\SYSWOW64\		
COMCT332.OCX	6.7.0.9816	2010-02-16 16:22:44
COMDLG32.OCX	6.1.98.16	2010-02-16 16:22:44
MSCOMCT2.OCX	6.1.98.16	2010-02-16 16:22:44
MSCOMCTL.OCX	6.1.98.46	2015-12-09 21:58:16
MSCOMM32.OCX	6.1.98.16	2010-02-16 16:22:44
MSFLXGRD.OCX	6.1.98.14	2010-02-16 16:22:44
MSMAPI32.OCX	6.1.98.16	2010-02-16 16:22:44
MSMASK32.OCX	6.1.98.16	2010-02-16 16:22:44
MSSCRIPT.OCX	1.0.10240.16384	2021-06-05 08:05:59
MSWINSCK.OCX	6.1.98.39	2015-03-27 13:25:00
TABCTL32.OCX	6.1.98.16	2010-02-16 16:22:44

Objectives and Success Criteria

- All features of this software will perform as intended.
- All statistics will calculate as intended and be consistent between screens.
- All statistical control alarms on the Prioritize screen will be correct.
- All colors will be consistent throughout the program.
- Calculated Targets & Control Limits will be accurately calculated and drawn.

Steps & Checks

- The software will be brought up using a standardized template, database and views designed for the purpose of validation. This is kept constant between QW 6.0 versions to make it easy to identify problems.
- Busitech has a program specifically designed to automatically validate all statistical calculations using the standardized template and database. See QW 6.0 Statistics Validation Report below.
- All functions and features of the software will be checked on each screen manually. (Completed by Noel Windle October 25, 2022)
- The consistency of alarms and colors will be checked for at least 10 variables between all screens (control, prioritize, relate, compare, log). A view is used to test different combinations of calculated targets and limits on the same variable. The consistency of alarms, colors and control limit calculations is confirmed on the validation report. (Completed by Noel Windle October 25, 2022)

BenchMark Generated QW 6.0 Statistics Validation Report

Filename	Version	Date
Installed in C:\PROGRAM FILES (X86)\BUSITECH\QW6\		
QW6.EXE	6.0.0.728	2022-10-18 10:36:56
QW6ADD.EXE	6.0.0.8	2022-10-18 10:37:16
QW6BACKUP.EXE	6.0.0.94	2022-10-18 10:37:02
QW6BATCHCHECK.EXE	1.0.0.0	2022-10-18 10:37:28
QW6CHECK.EXE	6.0.0.92	2022-10-18 10:37:02
QW6DATACLIENT.EXE	6.0.0.5	2022-10-18 10:37:14
QW6DEBUG.EXE	6.0.0.39	2022-10-18 10:37:14
QW6FILEPACK.EXE	6.0.0.107	2022-10-18 10:37:02
QW6LAUNCHTRAY.EXE	6.0.0.136	2022-10-18 10:36:54
QW6REPORT.EXE	6.0.0.75	2022-10-18 10:37:02
QW6RS232.EXE	6.0.0.74	2022-10-18 10:37:12
QW6SHAREDCONFIG.EXE	6.0.0.99	2022-10-18 10:37:02
QW6SPECMANAGER.EXE	6.0.0.39	2022-10-18 10:36:52
QW6SQLWIZ.EXE	6.0.0.94	2022-10-18 10:37:00
QW6SUMSTAT.EXE	6.0.0.106	2022-10-18 10:37:14
QW6TESTIO.EXE	6.0.0.6	2022-10-18 10:37:30
QW6VERSION.EXE	6.0.0.17	2022-10-18 10:37:14

QW6XLTOQW.EXE	6.0.0.108	2022-10-18 10:36:58
QW6XML.EXE	6.0.0.1	2022-10-18 10:37:12
QW6ADMIN.EXE	6.0.728.0	2022-10-18 10:36:56
QW6DOCUMENTER.EXE	6.0.0.35	2022-10-18 10:36:54
QW6MERGE.EXE	6.0.0.104	2022-10-18 10:36:54
QW6POPUPEDITOR.EXE	6.0.0.87	2022-10-18 10:36:54
QW6REBUILD.EXE	6.0.0.0	2022-10-18 10:37:30
QW6RS232ADMIN.EXE	6.0.0.9	2022-10-18 10:36:54
QW6SCHEDULE.EXE	6.0.0.91	2022-10-18 10:36:52
QW6TRIGGER.EXE	6.0.0.21	2022-10-18 10:37:30
QW6UTILITIES.EXE	6.0.0.114	2022-10-18 10:36:52
QWBATCHMOVE.EXE	1.0.0.0	2022-10-18 10:37:10
Installed in C:\PROGRAM FILES (X86)\BUSITECH\QW6\BIN\		
BUSITECH.QUALITYWINDOW.DOMAIN.DLL	6.0.0.0	2022-10-18 10:37:28
BUSITECH.QUALITYWINDOW.MODELS.DLL	6.0.0.0	2022-10-18 10:37:28
BUSITECH.QUALITYWINDOW.SECURITYDOMAIN.DLL	6.0.0.0	2022-10-18 10:37:28
BUSITECH.QUALITYWINDOW.SECURITYMODELS.DLL	6.0.0.0	2022-10-18 10:37:26
CSVHELPER.DLL	15.0.0.0	2022-10-18 10:37:28
ICSHARPCODE.SHARZPLIB.DLL	1.3.1.9	2022-10-18 10:37:26
INTEROP.MSSCRIPTCONTROL.DLL	1.0.0.0	2022-10-18 10:37:10
INTEROP.QWACCESS60.DLL	2.4.0.0	2022-10-18 10:37:10
INTEROP.QWAPPCONFIG60.DLL	1.2.0.0	2022-10-18 10:37:08
INTEROP.QWDLG60.DLL	1.4.0.0	2022-10-18 10:37:08
INTEROP.QWLICENSE60.DLL	1.1.0.0	2022-10-18 10:37:08
INTEROP.QWREP60.DLL	1.5.0.0	2022-10-18 10:37:08
INTEROP.QWSELECT60.DLL	2.2.0.0	2022-10-18 10:37:08
INTEROP.QWTOOL60.DLL	2.2.0.0	2022-10-18 10:37:08
INTEROP.VBA.DLL	6.0.0.0	2022-10-18 10:37:08
QW6COMSECURITY.DLL	6.0.0.0	2022-10-18 10:37:26
QW6CONTROLS.DLL	6.0.0.0	2022-10-18 10:37:26
QW6HELPLIBRARY.DLL	6.0.0.1	2022-10-18 10:37:08
QWACCESS60.DLL	6.0.0.233	2022-10-18 10:37:08
QWAPPCONFIG60.DLL	6.0.0.63	2022-10-18 10:37:08
QWCOMSRV60.DLL	6.0.0.111	2022-10-18 10:37:10
QWDLG60.DLL	6.0.0.193	2022-10-18 10:37:08
QWLAUNCH60.DLL	6.0.0.102	2022-10-18 10:37:06
QWLICENSE60.DLL	6.0.0.163	2022-10-18 10:37:06
QWLOGVIEW60.DLL	6.0.0.96	2022-10-18 10:37:06
QWMATH60.DLL	6.0.0.1	2022-10-18 10:37:06
QWREP60.DLL	6.0.0.127	2022-10-18 10:37:06
QWSELECT60.DLL	6.0.0.244	2022-10-18 10:37:06
QWSENDMAIL60.DLL	6.0.0.1	2022-10-18 10:37:06

QWSQL60.DLL	6.0.0.97	2022-10-18 10:37:06
QWTEXT60.DLL	6.0.0.79	2022-10-18 10:37:04
QWTOOL60.DLL	6.0.0.127	2022-10-18 10:37:04
SCILEXER.DLL	3.2.3.0	2022-10-18 10:37:04
SCILEXER64.DLL	3.2.3.0	2022-10-18 10:37:04
SCINTILLANET.DLL	3.0.1.0	2022-10-18 10:37:04
QWFILELOCK60.EXE	6.0.0.0	2022-10-18 10:37:10
QWASYNCWORKER.OCX	1.0.0.0	2022-10-18 10:37:12
QWCHARTS60.OCX	6.0.0.366	2022-10-18 10:37:12
QWPACIFIER60.OCX	6.0.0.68	2022-10-18 10:37:12
QWPOPUP60.OCX	6.0.0.2	2022-10-18 10:37:10
QWREPORT60.OCX	6.0.0.115	2022-10-18 10:37:10
QWTOOLTIP.OCX	1.0.0.0	2022-10-18 10:37:10
QWUPDATE60.OCX	6.0.0.196	2022-10-18 10:37:10
QWVARINFO60.OCX	6.0.0.106	2022-10-18 10:37:10
Installed in C:\PROGRAM FILES (X86)\COMMON FILES\BUSITECH\		
CHILKATMHT.DLL	9.3.1.0	2022-10-18 10:36:50
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FILEV012.OCX	13.0.0.0	2012-08-03 14:14:56
FLDRV012.OCX	13.0.0.0	2012-08-03 14:14:26
HDSECOMPRESSION.DLL	2.3.0.8	2022-10-18 10:37:16
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OPCDAAUTO.DLL	2.0.0.3	2022-10-18 10:37:24
SHCMB012.OCX	13.0.0.0	2012-08-03 14:15:24
SSSPLT30.OCX	3.0.3.8	2002-03-04 17:49:12
VBSENDMAIL.DLL	3.6.0.5	2022-10-18 10:37:26
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COMDLG32.OCX	6.1.98.16	2010-02-16 16:22:44
MSCOMCT2.OCX	6.1.98.16	2010-02-16 16:22:44
MSCOMCTL.OCX	6.1.98.46	2015-12-09 21:58:16
MSCOMM32.OCX	6.1.98.16	2010-02-16 16:22:44
MSFLXGRD.OCX	6.1.98.14	2010-02-16 16:22:44
MSMAPI32.OCX	6.1.98.16	2010-02-16 16:22:44
MSMASK32.OCX	6.1.98.16	2010-02-16 16:22:44
MSSCRIPT.OCX	1.0.10240.16384	2021-06-05 08:05:59
MSWINSCK.OCX	6.1.98.39	2015-03-27 13:25:00
TABCTL32.OCX	6.1.98.16	2010-02-16 16:22:44

Known Issues with This Release

QW 6.0.0.728 Release Notes identify all revisions to the software since the last Build release.

Busitech is choosing to go forward with this release of QW 6 to replace the previous version due to significant advantages of this release. Any outstanding items will be prioritized and scheduled for the next, or a future release, of QW 6.

The purpose of listing any known discrepancies is to ensure that:

1. The customer understands these discrepancies and properly considers them in their application.
2. Busitech may have documentation on any known discrepancies that will be prioritized and scheduled for the a future build release of QW 6.

Performance Qualification –PQ - not applicable or performed by Customer if needed.

QW 6.0 version 6.0.0.728 has been properly tested and checked as per the validation protocol. All results match success criteria. All known issues have been identified and communicated to Busitech technical resources to be resolved in the next release.

Validated by:



Noel Windle
Busitech Validation Leader



Michael Petrynka
Busitech Technical Director

We indicate that we have reviewed the information and concur with the indicated decision to consider QW 6.0 Build 6.0.0.728 IQ/OQ validated.