



QAD Customer Version Control (CVC) Release Notes

September 2021

These release notes include information about the latest QAD Customer Version Control (CVC) fixes and changes. These changes may affect the way you implement and use QAD CVC.

Review this document before proceeding with any phase of QAD CVC implementation.

These release notes are cumulative, with the most recent changes displayed first. Review the notes for all releases after your currently installed release. Installation and configuration changes may have occurred in those intermediate releases, and unless otherwise noted, apply to the release where they were announced, as well as subsequent releases.

QAD highly recommends that you implement the latest QAD CVC release available. Check the QAD Web site to make sure that you have the latest QAD CVC release notes, installation guide, and installation media.

<https://support.qad.com>

Use the following list to find a specific release:

<i>Release Notes for Current Release</i>	2
<i>Release Notes for Release 2.8</i>	6
<i>Release Notes for Release 2.7.0.60</i>	8
<i>Release Notes for Release 2.6.1.0</i>	10
<i>Release Notes for Release 2.6.0.1</i>	11
<i>Release Notes for Release 2.5.1.0</i>	12
<i>Release Notes for Release 2.5.0.0</i>	13

Release Notes for Current Release

QAD Customer Version Control Version: 2.9

Release Date: September 2021

QAD ERP Compatibility: QAD 2007.1 SE, QAD 2008 SE, QAD 2008.1 SE, QAD 2009 SE, QAD 2009 EE, QAD 2009.1 EE, QAD 2010 SE, QAD 2010 EE, QAD 2010.1 EE, QAD 2011 SE, QAD 2011 EE, QAD 2011.1 EE, QAD 2012 EE, QAD 2012 SE, QAD 2012.1 EE, QAD 2013 EE, QAD 2013.1 EE, QAD 2014 SE, QAD 2014 EE, QAD 2015 EE, QAD 2016 EE, QAD 2017 EE, QAD 2018 EE, QAD 2019 EE, QAD 2020 EE, QAD 2021 EE

New and Changed Features

This release of QAD CVC is a maintenance release and includes the following certifications and enhancements:

- Lock all environments during the upgrade.
- Lock the file when a user is running the `cvc add` command. In this way, when multiple users are adding the same file and running the `dev compile` command, their work files are not overwritten.
- Perform validations on file formats to avoid manual errors of committing to the wrong module.
- Detect the ticket dependency caused by the `include` relationships in promotion and backout processes.
- Delete files from the work directory and recompile them if users run the `cvc add --cancel` command.
- Provide the `--no-compile` option in the `cvc add --cancel` and `cvc checkout --cancel` commands.
- Validate that the specified file exists in both the database and the `git` repository when users run the `cvc add` command.
- Allow users to revert a single revision if there is no overlap with other tickets—therefore helping reduce ticket dependency.
- Validate the status information returned by the before-compilation and after-compilation scripts before taking subsequent steps.
- Report the current folder status after users run the `cvc add --cancel` or `cvc checkout --cancel` command successfully.
- Support for the `--add-command` and `--remove-command` options in the `cvc role` command—therefore allowing users to add or remove a single role permissive command.
- Reserve the backup files in the local directory when users run the `cvc upgrade` command.
- Exclude non-program files when prompting for source file mappings.
- Include the ticket name in the report filename after the `cvc promote` command is executed successfully.
- Reserve the `crpt` file in the temporary directory and report the absolute path to users after users run the `cvc report` command.
- Delete files from the work directory when CVC releases file locks in the `dev1` environment.
- Allow administrator users to perform the schema upgrade from any server when they are running the `cvc upgrade` command.



- Validate that files are locked by the current user (including both the files added and the files checked out when users run the `cvc dev-compile` command). This prevents users from overwriting the others' files in the work directory by mistake.
- Allow for parallel promotion for multi-instance environments.
- Provide context variables for compile hook scripts. Such data can be used to update the corresponding ticket, to send email to the corresponding user, and to load data based on the change set.
- Exclude non-program files when updating program reference during the execution of the following commands:
 - `cvc checkin`
 - `cvc promote`
 - `cvc backout`
 - `cvc revert`
 - `cvc register`
 - `cvc dev-compile`
 - `cvc rel-compile`
 - `cvc analyze-rcode`
- Delete the added file records, release file locks, and clean up files in the work directory when users run the `cvc register -d` command.
- Support for a new option in the `cvc file-mapping` command to clean up the source file mappings of the non-program files during CVC upgrade.
- Show the file status (committed or added) in a newly added column in the file report.
- Include `.xml` files when adding source file mappings during the execution of the following commands:
 - `cvc add`
 - `cvc fm -i`
 - `cvc fm -a`
 - `cvc fm -ca -inv`
 - `cvc reg`
 - `cvc source`
- Include failure commands when users run the `cvc report --activity-log` command.
- Introduce a new command, `cvc clean-activity-log`, to clean up and archive the history activity logs.
- Allow users to filter by file status (committed or added) in the file report.
- Prompt a warning to notify users of the ticket dependency when users run the `cvc checkout` command.
- Validate that the specified YAB process or instance exists in the YAB environment when users run the `cvc module` command.
- Send the context variables to the YAB process.
- Handle large context variable change sets when sending context variables.
- Provide the promoter information in the related CVC reports for audit purposes.

Fixed Issues

Internal ID	Description
CVCDEV-538	Even if <code>enforceLog</code> is false, CVC now prints logs in the <code>cvc.log</code> file when the <code>cvc report</code> command fails.
CVCDEV-539	When users have added and checked in a file, if they run the <code>cvc checkout --cancel</code> command without checking out the file, CVC now displays the following error message: “Unable to find specific files to cancel checkout.”
CVCDEV-540	CVC no longer prints errors in the <code>cvc.log</code> file if <code>code.fin.compilelist</code> is empty.
CVCDEV-541	For files that have been added in the <code>sup</code> environment, CVC does not cancel the addition by running the <code>cvc add --cancel</code> command in the <code>dev1</code> environment.
CVCDEV-547	CVC now reports errors for the unmodified files and files from other environments during the execution of the <code>cvc checkin</code> and <code>dev-compile</code> commands when users have specified the filename in the command line.
CVCDEV-551	In the <code>test</code> and <code>prod</code> environments, users can now use the CVC upgrade tool to upgrade CVC after the <code>cvc system-config</code> command is imported.
CVCDEV-552	CVC no longer mistakenly creates XREF files under the <code>rcode</code> meta directory with the ID of the login user when XREF is disabled.
CVCDEV-553	Users no longer encounter Git credential issues when the HTTPS protocol is configured in the Git remote URL.
CVCDEV-564	In the error message for reporting files that are not under version control, CVC now identifies the environment name. For example, “Error: These files are not under version control in [dev1] environment.”
CVCDEV-566	The CVC upgrade logic and the report display logic have been enhanced and the default value of <code>reportPreviews</code> is now 50.
CVCDEV-567	Files with non-ignored file extensions are no longer reported as ignored files.
CVCDEV-568	CVC no longer displays a prompt for <code>config</code> value changes during <code>cvc upgrade</code> .
CVCDEV-573	The <code>-n</code> option is now mandatory in the <code>cvc register</code> command.
CVCDEV-574	CVC now validates the ticket format when users run the <code>cvc status -g -t</code> command.
CVCDEV-577	When users run the <code>cvc backout</code> or <code>cvc revert</code> command to back out the last file of a module, CVC now reserves the module’s root directory.
CVCDEV-578	When all committed files are not program files, CVC now does not display the prompt “running xref index analysis tools” after compilation.
CVCDEV-579	CVC now reports the accumulated changes correctly when backing out a ticket with ADM change set.
CVCDEV-581	During CVC upgrade, the step for restoring upgrade is performed when CVC is unable to read DELTA files from the upgrade folder.
CVCDEV-583	CVC now displays the correct error message for deleting files in other environments.
CVCDEV-593	Users no longer need to wait for database lock release before the database transaction is committed.
CVCDEV-595	Temporary XREF files are successfully cleaned up after the <code>yab compile</code> command completes.
CVCDEV-596	During the execution of the <code>cvc check-env</code> command, CVC reports errors when there is any folder with hidden files in the environment.
CVCDEV-604	CVC now does not generate XREF files when <code>enableXref config</code> is set to <code>false</code> in the QDT and MFGUTIL environments.

Internal ID	Description
CVCDEV-605	<p>CVC now displays the backup work files in a directory in the same structure for the following commands:</p> <ul style="list-style-type: none"> • <code>cvc add --cancel</code> • <code>cvc checkout --cancel</code> • <code>cvc release-lock</code> • <code>cvc register -d</code>
CVCDEV-606	<p>Unexpected warning messages were printed in the <code>cvc.log</code> file when users ran the <code>cvc delete</code> or <code>cvc checkin</code> command to delete files. This issue has been fixed.</p>
CVCDEV-611	<p>When users ran the <code>cvc fm -d <file_mapping_id> -e sup</code> command, the file mapping ID, which existed in other environments, was deleted mistakenly. This issue has been fixed.</p>
CVCDEV-616	<p>CVC can now handle the file extension like <code>test.meta.xml</code> correctly.</p>
CVCDEV-619	<p>When users want to run the <code>cvc revert</code> command with all the commits in a ticket, CVC displays an error message and asks users to run the <code>cvc backout</code> command instead.</p>
CVCDEV-623	<p>If a user ran the CVC commands after a CVC system recovery, while another user was running the CVC commands, the commit the first user did was restored. This issue has been fixed.</p>
CVCDEV-624	<p>When no changes are found in the specified period, CVC displays a message, asking users to specify a longer date range.</p>
CVCDEV-631	<p>When multiple report files are generated by the <code>cvc report --env-diff</code> command, all of the report files are now sent to the email recipient.</p>

Release Notes for Release 2.8

QAD Customer Version Control Version: 2.8

Release Date: October 2020

QAD ERP Compatibility: QAD 2007.1 SE, QAD 2008 SE, QAD 2008.1 SE, QAD 2009 SE, QAD 2009 EE, QAD 2009.1 EE, QAD 2010 SE, QAD 2010 EE, QAD 2010.1 EE, QAD 2011 SE, QAD 2011 EE, QAD 2011.1 EE, QAD 2012 EE, QAD 2012 SE, QAD 2012.1 EE, QAD 2013 EE, QAD 2013.1 EE, QAD 2014 SE, QAD 2014 EE, QAD 2015 EE, QAD 2016 EE, QAD 2017 EE, QAD 2018 EE, QAD 2019 EE, QAD 2020 EE

New and Changed Features

This release of QAD CVC is a maintenance release and includes the following certifications and enhancements:

- Mark the files that have whole-index issues, and show whole-index information when reporting files.
 - Support for the `--whole-index` option in the `cvc report --file` command, allowing users to only view the files that have whole-index issues.
- Support for a CVC upgrade tool, which helps administrator users upgrade CVC cumulatively.
- Display the Linked Tickets column in CVC reports to show all linked tickets.
- Support for the `-r <revision>` option in the `cvc download` command, allowing users to download all the files committed in a specific revision when they do not fill in the filename.
- Clean up XREF files and result files after a successful check-in.
- Display whole-index information of files in the following reports:
 - File reports
 - Promote available reports
- Display the last modifier and a short description of what has been changed (file mode, +/- n lines) when users run the `cvc check-env` command.
- Enable JIRA status validation by default and update the CVC upgrade tool to enforce JIRA status validation.
- Display the following message when users run the `cvc add` command:
“Is the file <filename> customized from a standard source file?”

Users are then required to enter the source filename if the file is customized from a standard file.

Fixed Issues

Internal ID	Description
RFRD-8900	CVC now displays files in consistent order when reporting files through the <code>cvc add</code> command.
RFRD-8931	The <code>-env</code> option is now supported in the <code>cvc report --overlap</code> command.
RFRD-8939	The <code>cvc status</code> report was updated, showing the file status in the natural order.
RFRD-8992	CVC no longer marks the file CHG as M when repeatedly registering the same file without any changes to the same module.



Internal ID	Description
RFRD-9065	The <code>-TF 50</code> option was added to the database index rebuild command for OpenEdge 10.2B and later. This leads to incompatibility with OpenEdge 10.1C. This issue has been fixed in the latest <code>dde-build-core</code> library.
RFRD-9080	Previously, CVC did not delete file mappings after analyzing <code>rcode</code> when the <code>rcode</code> file was deleted and the <code>compile.info</code> file was empty. This issue has been fixed.
RFRD-9090	CVC now compiles all the files when users run the <code>cvc rel-compile</code> command without specifying any filename.
RFRD-9091	CVC no longer reports file mappings if users run the <code>cvc status -s</code> command after manually deleting the added files with file mappings.
RFRD-9126	Previously, an SQL error was reported when users ran the <code>cvc register</code> command with a large number of files (for example, more than 5000 files). This issue has been fixed.
RFRD-9145	Previously, the <code>cvc install</code> command reported a syntax error when loading schema with OpenEdge 10.1C03. This issue has been fixed.
RFRD-9168	CVC now performs better in the file information update step when users run the <code>cvc checkin</code> or <code>cvc promote</code> command.
RFRD-9185	CVC no longer reports error messages when users run the <code>cvc analyze-rcode</code> , <code>cvc rel-compile</code> , or <code>cvc file-mapping</code> command in an environment without files.
RFRD-9186	CVC now validates the values of <code>Src-dir</code> and <code>Xrc-dir</code> when updating the <code>Root-dir</code> value for a module.
RFRD-9187	CVC now displays the following message, asking users to confirm whether to upload XREF results: "Do you want to upload XREF result to the JIRA ticket?"
RFRD-9190	CVC now displays more details in the error message "Unable to push changes," which helps users easily know the cause.
RFRD-9191	CVC now displays more details in the error message "cvc operator is broken," which helps users easily know the cause.
RFRD-9197	CVC now skips custom files in the <code>propath</code> when searching for the valid source file in the <code>propath</code> .
RFRD-9204	CVC now only reports the whole-index issues, which were found during XREF analysis and were caused by the files related to the current <code>checkin</code> files.
RFRD-9256	CVC now displays the message "Please enter the sequence number" when users run the <code>cvc resolve</code> command; users can then choose which file to resolve.
RFRD-9445	CVC now reports the correct file changes when promoting tickets that include files being deleted from the source environment by other tickets.

Release Notes for Release 2.7.0.60

QAD Customer Version Control Version: 2.7.0.60

Release Date: April 2019

QAD ERP Compatibility: QAD 2007.1 SE, QAD 2008 SE, QAD 2008.1 SE, QAD 2009 SE, QAD 2009 EE, QAD 2009.1 EE, QAD 2010 SE, QAD 2010 EE, QAD 2010.1 EE, QAD 2011 SE, QAD 2011 EE, QAD 2011.1 EE, QAD 2012 EE, QAD 2012 SE, QAD 2012.1 EE, QAD 2013 EE, QAD 2013.1 EE, QAD 2014 SE, QAD 2014 EE, QAD 2015 EE, QAD 2016 EE, QAD 2017 EE, QAD 2018 EE

New and Changed Features

This release of QAD CVC is a maintenance release and includes the following certifications and enhancements:

- Detect overlaps between the custom files and standard product code updates.
 - Support for the `cvc file-mapping` command, which enables users to initialize and manage file mapping data.
 - Support for the `cvc report --file-mappings` option, allowing users to view file mappings with filters.
 - Support for the `cvc resolve` command, which enables users to mark file overlaps as resolved.
 - Support for the overlap detecting logic based on the file mapping data.
 - Allow users to select source files when running the `cvc add` command.
 - Generate file mappings of the `source` type when users run the `cvc checkin`, `cvc source`, and `cvc register` commands.
 - Support for the enhanced `cvc analyze-rcode` command, which helps handle the program reference obtained from the `compile.info` file if such a file exists.
 - Support for the refined program reference data structure and the merge of such data into file mapping data.
- Support for the validation of JIRA tickets for which code review output is attached.
- Support for the `cvc report --since` and `--until` options, allowing users to view data within the specified date range.

Fixed Issues

Internal ID	Description
RFRD-6882	Previously, the <code>cvc dev-compile</code> command did not back up or restore rcode files in the work directory. This issue has been fixed.
RFRD-5566	Previously, the <code>cvc checkout --cancel</code> option did not remove the files in the work directory. This issue has been fixed.
RFRD-5831	Previously, CVC reported compilation success messages even though the <code>-h compile</code> parameter was not set correctly. This issue has been fixed.
RFRD-7085	The validation for Git ignored files has been updated. CVC now does not allow users to check in any file that is in the <code>.gitignore</code> list.
RFRD-7017	Previously, the <code>cvc dev-compile</code> command did not report the referencing program files when compiling the include files. This issue has been fixed.
RFRD-7173	The Git push logic has been refined to avoid the error message “Unable to push changes to remote repository.”
RFRD-7204	The detailed CVC help has been updated.



Internal ID	Description
RFRD-7328	The error messages displayed for missing arguments have been updated to keep consistency.
RFRD-7459	The error messages displayed during the check-in of not-version-controlled files have been updated.

Release Notes for Release 2.6.1.0

QAD Customer Version Control Version: 2.6.1.0

Release Date: December 2018

QAD ERP Compatibility: QAD 2007.1 SE, QAD 2008 SE, QAD 2008.1 SE, QAD 2009 SE, QAD 2009 EE, QAD 2009.1 EE, QAD 2010 SE, QAD 2010 EE, QAD 2010.1 EE, QAD 2011 SE, QAD 2011 EE, QAD 2011.1 EE, QAD 2012 EE, QAD 2012 SE, QAD 2012.1 EE, QAD 2013 EE, QAD 2013.1 EE, QAD 2014 SE, QAD 2014 EE, QAD 2015 EE, QAD 2016 EE, QAD 2017 EE, QAD 2018 EE

New and Changed Features

N/A

Fixed Issues

Internal ID	Description
RFRD-6984	CVC now supports the operation of overwriting compilation language parameters in the <code>langxref.ini</code> file with the settings from the <code>.pf</code> compilation file (a file for defining compilation parameters) in QDT and SE environments.

Release Notes for Release 2.6.0.1

QAD Customer Version Control Version: 2.6.0.1

Release Date: November 2018

QAD ERP Compatibility: QAD 2007.1 SE, QAD 2008 SE, QAD 2008.1 SE, QAD 2009 SE, QAD 2009 EE, QAD 2009.1 EE, QAD 2010 SE, QAD 2010 EE, QAD 2010.1 EE, QAD 2011 SE, QAD 2011 EE, QAD 2011.1 EE, QAD 2012 EE, QAD 2012 SE, QAD 2012.1 EE, QAD 2013 EE, QAD 2013.1 EE, QAD 2014 SE, QAD 2014 EE, QAD 2015 EE, QAD 2016 EE, QAD 2017 EE, QAD 2018 EE

New and Changed Features

This release of QAD CVC is a maintenance release and includes the following certifications and enhancements:

- Allow users to perform performance check (using the XREF index analysis tools) before checking in code.
- Block code check-in when there is any whole index error in the code.
- Support for version control files of EDI and LPS in YAB environments.
- Support for the `cvc download` command, allowing users to fetch an earlier version of code from the file history.
- Support for the `cvc diff` command, allowing users to compare different versions of a file.

Fixed Issues

Internal ID	Description
RFRD-6286	Previously, CVC Unique ID was missing when a user was checking in but another user was running the <code>cvc rp -pa</code> command or other reports related to commits. This issue has been fixed.
RFRD-6134	The overlap report format has been redefined, with each file name listed in a separate line.
RFRD-6266	The display of the QAD Web Ticket column in all reports has been redefined.
RFRD-6330	Previously, if a user ran the <code>cvc register</code> command but the files to be registered did not contain any changes that could be committed, QAD CVC created an empty commit. This issue has been fixed and no empty commit is created in this situation.
RFRD-6416	The content of the <code>.gitignore</code> file in YAB has been updated. More entries are available now.
RFRD-6736	Validating JIRA tickets may take some time depending on the network connection. CVC now displays hint messages, enabling users to know the validation status.
RFRD-6693	Previously, inconsistent data types for ID fields were used in the Progress database and the Java code. This issue has been fixed.

Release Notes for Release 2.5.1.0

QAD Customer Version Control Version: 2.5.1.0

Release Date: May 2018

QAD ERP Compatibility: QAD 2007.1 SE, QAD 2008 SE, QAD 2008.1 SE, QAD 2009 SE, QAD 2009 EE, QAD 2009.1 EE, QAD 2010 SE, QAD 2010 EE, QAD 2010.1 EE, QAD 2011 SE, QAD 2011 EE, QAD 2011.1 EE, QAD 2012 EE, QAD 2012 SE, QAD 2012.1 EE, QAD 2013 EE, QAD 2013.1 EE, QAD 2014 SE, QAD 2014 EE, QAD 2015 EE, QAD 2016 EE, QAD 2017 EE

New and Changed Features

N/A

Fixed Issues

Internal ID	Description
RFRD-6206	Previously, users got an error message when promoting tickets with old commits backed out before in the shared history. This issue has been fixed.
RFRD-6198	Previously, CVC failed to start the database server because Internal Code Page (-cpinternal) and Stream Code Page (-cpstream) configurations were incompatible. This issue has been fixed.
RFRD-6068	CVC now allows users to send reports via email by using the <code>cvc report --mail-to</code> and <code>--mail-subject</code> options.



Release Notes for Release 2.5.0.0

QAD Customer Version Control Version: 2.5.0.0

Release Date: March 2018

QAD ERP Compatibility: QAD 2007.1 SE, QAD 2008 SE, QAD 2008.1 SE, QAD 2009 SE, QAD 2009 EE, QAD 2009.1 EE, QAD 2010 SE, QAD 2010 EE, QAD 2010.1 EE, QAD 2011 SE, QAD 2011 EE, QAD 2011.1 EE, QAD 2012 EE, QAD 2012 SE, QAD 2012.1 EE, QAD 2013 EE, QAD 2013.1 EE, QAD 2014 SE, QAD 2014 EE, QAD 2015 EE, QAD 2016 EE, QAD 2017 EE

New and Changed Features

This release of QAD CVC is a maintenance release and includes the following certifications and enhancements:

- Support for the `cvc report -ed` option, allowing users to view different commits between two environments.
- Support for the `cvc report -rf` option, allowing users to view recent file changes.
- Support for the `cvc promote -all -ex` option, allowing users to exclude some tickets this time when promoting all available tickets.
- Support for the `cvc revert` command, allowing users to revert changes to a specific file without infecting the other files committed by the same ticket.
- Support for the `cvc commit-git` command, helping users easily commit changes to the `.gitignore` and `.gitattributes` files.
- Provide a new entry in the `config.ini` file, allowing users to disable the `no-compile` option.
- Provide a new entry in the `config.ini` file, allowing administrator users to disable JIRA ticket status validation.
- Allow users to specify some tickets in the `config.ini` file to exclude them each time when promoting all available tickets.

Fixed Issues

Internal ID	Description
RFRD-6069	CVC now does not display the source format column in YAB environments. It shows this column only in the file reports when necessary in QDT and SE environments.
RFRD-5771	CVC now provides the file change (CHG) column in the file history report.
RFRD-6066	CVC now provides the commit message column in the environment history report.
RFRD-5771	CVC now allows users to check the file history report for deleted files.
RFRD-5772	CVC now allows users to back out unpromoted commits while some commits of the same ticket have been promoted.
RFRD-6043	CVC now removes the <code>runtimeFilesPattern</code> settings from the <code>config.ini</code> file and advises administrator users to include runtime files in the <code>.gitignore</code> file.
RFRD-6014	Previously, CVC read the code page from the <code>langxref.ini</code> file for MFGUTIL compilation, and used the value from the last entry if there were duplicate entries in the file. This issue has been fixed. CVC now uses the value in the first entry instead and makes it take effect.



Internal ID	Description
RFRD-5965	Previously, CVC displayed an error message when users ran the <code>cvc install</code> command even though the Git version was higher than 1.8.5. This issue has been fixed.
RFRD-5975	Previously, if permission control was turned off, CVC did not list all commands when users ran the <code>cvc</code> command. This issue has been fixed.
RFRD-6012	Previously, CVC failed to display the <code>--compile-pf</code> option correctly when users ran the <code>cvc md -a -h</code> command. This issue has been fixed.

