



QAD Customer Version Control (CVC) Release Notes

August 2022

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>

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Release Notes for Current Release

QAD Customer Version Control Version: 3.1

Release Date: August 2022

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, QAD 2022 EE

New and Changed Features

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

- Add the `--path-only` option to the `cvc report --file` command, which only shows the file path without any other information.
- Support display of compilation errors on the console with the `enableCompileErrorOnConsole` option.
- Add the `--bulk-update` option to the `cvc file-mapping` command, supporting bulk update of source file mappings through files in `.csv` format.
- Upgrade the Log4j lib version to 2.17.2 for Java 8.
- Update the `cvc register` command to support the new options for filtering the files to be registered: `--includes`, `--includes-file`, `--excludes`, and `--excludes-file`.
- Support ANT wildcard patterns when filtering files during the execution of the `cvc report --file-history` command.
- Show the files that caused the ticket dependency in the `cvc report --promote-avail` command.
- Allow users to set the log level through the `cvc config` command and the one-time command line argument.
- Allow users to exit easily when they are running the `cvc add` command and being prompted for the source file name.
- Change the way in which CVC interacts with YAB, to improve system performance.
- Remove the `debugMode` option and make CVC commands not depend on whether the debug mode is enabled.
- Add the `--list` option to the `cvc report --file` command, for specifying filename patterns in a specific file.
- Allow administrator users to run the `cvc encrypt-password` command without database connection.
- Update the new `process-xref` script.
- Validate the two-letter parent directory when developers are using the `us/<twoletter>/program.p` format with the `cvc add` command to add new files. In addition, a warning message displays, saying “two letter directory should be us/xx?”.
- Update the help usage for the `cvc source` command.
- Enhance the logic of obtaining the local hostname in CVC.
- Improve the upgrade script, making it automatically pick up the correct Java version from the environment when the linked Java version does not meet the requirement.



- Display a message saying that the ANT pattern filter format is used, when users obtain no results with the regex pattern filter for wildcard filenames. Involved commands include:
 - `cvc rel-compile`
 - `cvc register`
 - `cvc report`
- Provide an environment difference report based on files to compare files between any two specified environments.
- Add JIRA QSM Labels field to CVC reports. The following reports have the JIRA ticket information:
 - env details
 - file history
 - recent files
 - env diff
 - jira status
 - promote available
- Enhance the `env-diff` report to handle partial promoted tickets.
- Add the author information in the Git notes for `dev1` commits after users run the `cvc patch` command.
- Update the whole-index message displayed for the `cvc report --promote-avail` command, to keep consistency with that displayed for the `cvc report --env-diff` command.
- Add a new column to the activity log report, which provides detailed error messages and facilitates issue analysis.
- Record CVC upgrade activities in activity logs, which helps better track the historical CVC version.
- Record system recovery activities and related information in activity logs. Such information is useful for issue analysis.

Fixed Issues

Internal ID	Description
CVCDEV-695	When users run the <code>cvc checkin</code> command, CVC performs the compilation process and deploys rcode. If the compilation fails, CVC restores all Git and/or database changes and recompiles the files again, but XREF should not be kept.
CVCDEV-714	The result of the <code>cvc status -s</code> command was incorrect if this command was executed in a sub-folder. This issue has been fixed.
CVCDEV-751	Dependency tickets for include files were missing when CVC displayed the warning for introducing new ticket dependencies. This issue has been fixed.
CVCDEV-752	CVC failed to run the <code>check-indexes</code> script when processing the whole-index issue in database security environments. This issue has been fixed.
CVCDEV-778	Context variables for compilation are now enclosed in quotation marks.
CVCDEV-779	Where two commands were executed concurrently, the order of the commands was incorrectly recorded in the activity report. This issue has been fixed.
CVCDEV-782	The <code>cvc add</code> command did not report an error when an incorrect file path was added. This issue has been fixed.
CVCDEV-789	When users specify non-program files in the <code>-inc</code> option of the <code>cvc rel-compile</code> command, CVC no longer compiles those non-program files.
CVCDEV-790	The whole-index status is now correctly updated in SE environments.
CVCDEV-791	When users run the ticket file report for deleted ticket files, which have been deleted by other tickets, the whole-index status is now correctly shown as “deleted”.

Internal ID	Description
CVCDEV-794	Environment locks were deleted unexpectedly when the system recovery failed with remote Git errors. This issue has been fixed.
CVCDEV-801	CVC now pushes the Git commit after uploading XREF results.
CVCDEV-802	Untracked files were deleted unexpectedly when some runtime exceptions happened during the execution of the <code>cvc register</code> command. This issue has been fixed.
CVCDEV-805	During the execution of the <code>cvc dev-compile</code> command, context variables can be passed to the compilation hook scripts.
CVCDEV-806	The CVC shell scripts have been updated for not exporting CVC local <code>JAVA_HOME</code> and <code>PATH</code> when users run external commands. This makes sure that the external commands always use the system's default environment settings.
CVCDEV-807	When the file to be added is contained in the <code>.gitignore</code> list, and the file exists in the environment directory, CVC now validates the Git ignored files first. After that, CVC performs the other validations.
CVCDEV-812	When users run the <code>cvc register</code> command without any file filter, CVC now reports the file mappings for the files being registered.
CVCDEV-813	The behavior of cleaning XREF result files has been reviewed and adjusted in related CVC commands.
CVCDEV-848	When an SQL exception occurred during the CVC upgrade process, the detailed exception was not shown in the upgrade logs. This issue has been fixed.
CVCDEV-849	JIRA API errors were not reported on the console. This issue has been fixed.
CVCDEV-850	During the promotion of a ticket that contained a large number of files CVC failed to add JIRA ticket comments. This issue has been fixed. CVC now generates a summarized JIRA ticket comment if the comment length exceeds the JIRA system limitation.
CVCDEV-858	When promoting multiple tickets, the <code>cvc promote</code> command added all comments to the first ticket only, which was incorrect. This issue has been fixed and CVC now adds comments to the corresponding tickets, respectively.
CVCDEV-859	Running the <code>git push -f</code> command may lead to loss of commits when the local branch is out of synchronization, especially when the local environment is restored to some old backups. CVC no longer automatically runs this command when trying to roll back Git commits during a system recovery or rollback. It now reports the error instead, asking administrator users to manually handle the issue.
CVCDEV-866	CVC now synchronizes the Git commit status before validating ticket dependency in the <code>cvc checkout</code> command.
CVCDEV-877	The <code>cvc clean-env</code> command now compiles the files being changed.
CVCDEV-879	The CVC file mapping report now shows the argument <code><files></code> in the help usage.
CVCDEV-881	To help track unexpected issues, CVC now records activity logs before starting the CVC process.
CVCDEV-883	CVC can now better handle the system recovery when the network is unstable and users get disconnected after the Git push.
CVCDEV-884	The following commands now saves activity logs since they do make changes to the environment: <ul style="list-style-type: none"> • <code>sql</code> • <code>fix-data</code> • <code>clean-activity-log</code> • <code>check-consistency</code> • <code>diff</code> This is helpful for tracking issues.

Release Notes for Release 3.0

QAD Customer Version Control Version: 3.0

Release Date: March 2022

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:

- Add the following fields to the content of report files: `report name`, `report period`, and `report generate date`. The following reports, which have the date range option, now have the previous new headers:
 - `env history`
 - `recent file`
 - `activity log`
 - `file history`
- Support comparison among multiple environments in the `env diff` report.
- Support execution of the `cvc report --overlap` command in non-development environments.
- Add the `fix-data` command, which helps fix both existing and history file records that are missing in the CVC database.
- Enhance the `commit-git` command to allow administrator users to edit the `.gitignore` or `.gitattributes` files directly.
- Add an option to show the reverted commits in the CVC file history reports.
- Remove the `web ticket` column from all CVC reports.
- Add a new report option to show all users in CVC.
- Add a new report option to show all the files under a specific ticket.
- Support user group specification for all users.
- Add a new report option to show all the environments in CVC.
- Automatically update corresponding JIRA tickets with comments when running the `cvc promote` and `cvc backout` commands.
- Add a new report option to show all the roles in CVC.
- Add new configuration details in the `cvc config -s` command.
- Prompt a warning to show the files that do not have commit change sets in the `cvc register` command.
- Add a new entry (`.meta`) in the default `.gitignore` file in the CVC installation process.
- Capture user IDs in CVC log files.
- No longer allow for a blank JIRA key when the configuration `jiraValidation` is enabled in the CVC installation process.
- Lock the tables to be upgraded during the CVC upgrade so as to avoid schema upgrade issues.



- Allow users to directly run the `cvc add` command to add files after running the `cvc backout` command.
- Change the default number of preview lines from 50 to 100 for all CVC commands.
- Store all CVC context variables in a file in the following format: `CVC_CONTEXT_VARIABLE_FILE=xx`. This ensures an appropriate length of the context variable string and avoids the execution failure of the before-compilation and after-compilation scripts.
- Display a message, prompting users to enter the current CVC installation directory in the `cvc_upgrade` shell script and then set up `JAVA_HOME` and `PATH`.
- Add the `.html` file pattern to the program file pattern and source file mapping pattern in the `config.ini` file.
- Update the JIRA API account credential in the `config.ini` file.
- Support for the `excludes` option, allowing users to exclude the files, which will not add to the compilation list, when running the `cvc rel-compile` command.
- Remove the `patch-dir` option from the `cvc report --overlap` command.
- Validate the JIRA project key value during the CVC installation process.
- Use the standard ANT wildcard format in the `cvc report -f` command.
- Enable TLS 1.2 in Java 1.7 when sending HTTPS requests to the JIRA Server.
- Improve the CVC performance when running external OS commands.

Fixed Issues

Internal ID	Description
CVCDEV-627	CVC now displays an error message if users run the <code>cvc role --update</code> command without any of the following options: <code>--new-name</code> , <code>--add-command</code> , and <code>--remove-command</code> .
CVCDEV-649	A timeout parameter, <code>databaseLoginTimeout</code> , has been added. This avoids the suspension of CVC when it tries to connect to a database in remote environments.
CVCDEV-650	CVC can now promote or back out the tickets that contain empty commits created by the <code>cvc register</code> command.
CVCDEV-652	CVC can now promote tickets when the Git repository is in abnormal cherry-pick status.
CVCDEV-662	Non-program files were not compiled in the commands that have the compilation logic. This issue has been fixed.
CVCDEV-663	When trying to re-create the module root, CVC now validates only the modules that are affected by the command.
CVCDEV-668	Non-program files were skipped in the dependency detection logic. This issue has been fixed.
CVCDEV-680	CVC now rolls back Git changes when a runtime exception occurs.
CVCDEV-681	When restoring file records, the <code>cvc register</code> command can now handle the file records in Added status.
CVCDEV-694	In YAB environments, CVC now reports an error to users when it fails to run YAB command.
CVCDEV-696	CVC now supports incremental compilation when XREF analysis is enabled.
CVCDEV-735	Running the <code>cvc dev-compile</code> command in SE environments now triggers the XREF check.
CVCDEV-738	The compilation process now fails in SE or QDT environments if users cancel the dependent include file addition after running the <code>cvc dev-compile</code> command.

Internal ID	Description
CVCDEV-742	CVC performance is improved when users run the <code>cvc analyze-rcode</code> command in an environment where there is a large number of files.
CVCDEV-743	The database query issue, which occurred when users ran the <code>cvc promote</code> command with a large number of files, has been fixed.
CVCDEV-747	The YAB process is validated properly for the space-separated list.
CVCDEV-762	The <code>rcode</code> files were deployed when the compilation failed in SE and QDT environments. This issue has been fixed.
CVCDEV-765	When registering a large number of files without the <code>deploy-rcode</code> option in SE and QDT environments, CVC reported only some of the files. This issue has been fixed.
CVCDEV-769	When users ran the <code>cvc register</code> command in YAB environments, the whole index status for unchanged files was not updated correctly. This issue has been fixed.
CVCDEV-777	Sudo commands in Git credential commands caused permission-denied errors. This issue has been fixed.
CVCDEV-783	When users ran the <code>cvc rel-compile</code> command in YAB environments, the whole index status for unchanged files was not updated correctly. This issue has been fixed.

Release Notes for Release 2.9

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	CVC now displays the backup work files in a directory in the same structure for the following commands: <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	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.
CVCDEV-611	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.
CVCDEV-616	CVC can now handle the file extension like <code>test.meta.xml</code> correctly.
CVCDEV-619	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.
CVCDEV-623	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.
CVCDEV-624	When no changes are found in the specified period, CVC displays a message, asking users to specify a longer date range.
CVCDEV-631	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.

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.