



Tx3 Vera Release Notes

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Document ID: TX3.1022.RPT.070 - Revision: 01

Release Date: 05 DEC 2018

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Summary

Release Date	05 DEC 2018
QCP Type	Template
Version Control	Enabled
Supported HP ALM Version(s)	Reference the <i>Tx3 VERA Installation and Deployment Guide</i> (Tx3.1022.GUI.004)
High Level Description	Tx3 VERA v2.5
Notes	This is maintenance release that adds support for a configurable test execution policy. It also contains various high priority bug fixes. Reference the Change History section for a detailed listing of changes in this release.
Tx3 Internal Ref ID	02fe5e2



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Software Components

Component	Version
VERA Policy Configurations:	Records Management Policy: 1.7.0.0 Approval Policy: 1.2.1.0 Notification Policy: 1.3.1.0 Risk Assessment Policy: 1.0.0.0 Test Execution Policy: 1.0.0.0 UI Configurations: 1.0.0.0
QC/ALM Workflow Script	1.10.0.0
VERA Windows Client	VERA Windows Client Installer: 2.3.0 Vera Core Plug-in (Tx3Workflow.Core.dll): 6.0.1.0 Vera ALM OTA Adapter (Tx3Workflow.Adapters.ALMOTA.QC12_53.dll): 2.4.1.0 VERA Data Importer (Vera.DataImporter.dll): 1.1.1.0 VERA Data Importer Plugin (Vera.DataImporter.Plugin.dll): 1.1.1.0 VERA Data Importer ALM OTA Adapter (Vera.DataImporter.Importers.ALMOTA.dll): 1.2.2.0 VERA Data Importer WPF UI (Tx3.UI.WPF.DataImporter.dll): 1.0.0.0 VERA REST Adapter (Vera.Adapters.Rest.dll): 1.0.1.0 VERA Tosca REST Adapter (Vera.Adapters.ToscaRest.dll): 1.2.0.0 VERA Signatures Plug-in (Vera.Signatures.dll): 2.2.0.0 VERA Signatures Verification Plug-in (Vera.Signatures.VerificationApp.dll): 2.0.2.0 Vera WPF UI (Tx3Workflow.UI.WPF.dll): 3.2.0.0
VERA Utilities	VERA Password Encryption Utility: 1.0.0.0

Files in the Release

Title	File Name	Description
Release Notes	VERA 2.5 Release Notes (TX3.1022.RPT.070).pdf	This document.
VERA Templates	Vera_ALM_12_53_Standard.qcp	The HP ALM template file.
VERA Windows Client Installer	Setup.exe VERA Windows Client Installer.msi	The installation utility for the VERA client files.
VERA Password Encryption Utility	VERA_Password_Encryption_Utility.zip	A utility used for encrypting service account passwords. This component is used with the VERA Synchronization feature, and it is not required for most VERA installations.



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Installation

Reference the *Tx3 VERA Installation and Deployment Guide* (Tx3.1022.GUI.004) for instructions on installing the new software components.

Change Log

Current Release

Items addressed in the current release.

Category	Reference ID	Name / Description
Bug Report	VF-323	<i>An error message is displayed when selecting the Go button in a New Record dialog box</i> This issue is duplicated by and will be fixed under issue VF-474.
Bug Report	VF-362	<i>VERA Splash Screen - does not load in correct sequence</i> The VERA ALM OTA Adapter was updated to immediately display the VERA splash screen (with Cancel button) prior to downloading the in-context entity tree from ALM. Now the Cancel button is available throughout the majority of the Action Menu loading sequence.
Bug Report	VF-450	<i>If a VERA action fails, it leaves the record checked out</i> The VERA core engine was updated to properly rollback pending transactions when an unexpected exception condition is encountered.
Bug Report	VF-474	<i>Disable VERA GO button on Details/New screens</i> The VERA QC/ALM workflow script was updated to enforce that the Action Menu should not be accessible from any dialog window. Any time the script detects that a dialog window is open, it will deny allowing the Action Menu to launch.
Bug Report	VF-482	<i>CSV Importer: Data that overruns a field length is imported and truncated</i> The CSV Data Importer feature was updated to verify the configured length of each field in ALM prior to writing each imported value to QC/ALM. If any imported value will exceed the maximum allowed field length, then the entire row from the CSV will not be imported and an error message will be included in the final summary.



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Category	Reference ID	Name / Description
Bug Report	VF-485	<i>VERA QC/ALM Workflow Script does not immediately evaluate constraints against all runs when doing Run Test Set</i> This issue was addressed as a byproduct of the implementation of the Test Execution Policy feature (VF-477). Therefore, it is recommended that projects that require non-default test execution controls should implement those controls using a Test Execution Policy. Projects with non-default test execution controls that do not make use of a Test Execution Policy may still be impacted by this defect.
Bug Report	VF-490	<i>Disable Action Menu on Test Instance Details and Run Details windows in Test Lab module</i> This issue was resolved as a byproduct of fixing VF-474. The Action Menu will no longer launch from within any dialog window of QC/ALM, thus avoiding this issue altogether.
Enhancement Request	VF-477	<i>Tester can start the formal execution of tests when test status is not Approved</i> Implemented a Test Execution Policy that allows the configuration of Execution Types. These will define criteria for Test Sets and all associated Test Cases for the running of Tests. When this policy is present on a project, it replaces the default hard-coded rules.
Other	VF-373	<i>Step Status History - new parameter to enable step history</i> The VERA Installation and Deployment Guide was updated with new ALM 12.55 Site Parameter: ENABLE_STEPS_HISTORY = Y. After setting the ENABLE_STEPS_HISTORY site parameter in Site Administration, you can now enable history for the Test Step System Fields in Project Customization which enables the audit log of following Test Run Step fields: ST_STATUS: Execution Status ST_ACTUAL: Actual ST_EXECUTION_DATE: Exec Date ST_EXECUTION_TIME: Exec Time The VERA QC/ALM was updated to have audit history enabled for Test Run Steps by default. NOTE: This new functionality is only available in ALM 12.55+. The configuration has no impact on prior versions of ALM.



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Category	Reference ID	Name / Description
Regression / Test Failure	VF-491	<i>Dry Run "Attachment History" field is not defaulted correctly.</i> This issue was addressed as a byproduct of the implementation of the Test Execution Policy feature (VF-477). Projects that do not make use of a Test Execution Policy may still be impacted by this defect. Projects that do make use of a Test Execution Policy can address this issue by specifying a target record type from the Test Execution Policy and then specifying the necessary default values in the Records Management Policy definition for that record type. The VERA standard policy configurations implemented as a part of VF-477 also address this issue.

Prior Releases

Running log of features and bug fixes from prior releases in reverse-chronological order.

VERA 2.4.1 – 15 NOV 2018

Category	ID #	Name / Description
Bug Report	VF-488	<i>Cannot Delete Test Set Folders</i> The VERA ALM OTA Adapter was updated to properly handle the internal exception that occurred when attempting to delete a test set folder.
Bug Report	VF-487	<i>Unhandled exception when moving a test folder</i> VERA QC/ALM workflow script was updated to correctly invoke the enhanced functionality for evaluating move actions.
Enhancement Request	VF-435	<i>Append on Paste or Set Default Value on Smart Paste</i> Enhanced the VERA engine to support an "Append on Copy" field property in the records management policy. When used, VERA will append the specified property value to the field's current value when copying the entity using Smart Copy/Paste. This feature is not used in VERA's standard configurations.
Bug Report	VF-457	<i>The Testers field is not always initialized on new runs.</i> The VERA QC/ALM workflow script was updated to immediately post updates to the Testers field to the database. This ensures that the values written to that field cannot be lost from other workflow actions.



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Category	ID #	Name / Description
Enhancement Request	VF-439	<i>MicroFocus ALM 14 support (SAAS)</i> The engine was updated to support authentication configurations in the Approval Policy. These configurations enable users to specify an external application for verifying electronic signature credentials. When configured, the VERA approval dialog will display a special button for authentication instead of directly prompting for a username and password. This new feature is not used in VERA's default configurations.

VERA 2.4 – 08 NOV 2018

Category	ID #	Name / Description
Bug Report	VF-387	<i>Focus moves to next step when VERA prevents execution status change because actual result was omitted</i> The VERA workflow script was updated to check the Actual results field during both associated workflow events: 1. The "Action Can Execute" event for the "Pass Step" action. 2. The "Field Can Change" event for the step Execution Status field. Checking during the first event allows VERA to deny the Pass Step action directly when no Actual results are present. When the action is directly denied, the Manual Runner will not advance to the next step. Maintaining the check during Field Can Change ensures that the Actual Results are checked during all status field updates, including direct edits to the Status field itself.
Bug Report	VF-444	<i>Vera email notification links open new session when there is already an active session</i> This issue was fixed as a result of fixing Defect 361. Both issues shared the same exact root cause and were only different manifestations of the same behavior. No changes were needed to fix this issue beyond the changes already implemented for Defect 361.
Bug Report	VF-461	<i>Removing the Routes section of the RMP causes a null value error</i> An internal bug was fixed in the VERA core engine such that the Routes element of the VERA Records Management Policy is no longer required by the policy parsing engine.
Bug Report	VF-462	<i>Entity Error Approving a defect</i> The encoding of data for signatures was changed to Unicode in order to detect changes to unicode characters when verifying signatures.



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Category	ID #	Name / Description
Bug Report	VF-463	'Smart Copy' copies the Direct Cover Status of requirement entities The VERA ALM OTA Adapter was updated to exclude the Direct Cover Status field from the Smart Paste operation. This field will never be included as a matter of hard-coded configuration.
Bug Report	VF-468	Renaming an Approval Policy attachment file and uploading a new file causes error. This issue was documented as a known limitation in the VERA release notes.
Bug Report	VF-473	Pressing Refresh during a test execution can purge the run's Change History When red-lining a step in a run, posted changes to the Change History field so that a refresh on the main ALM window will not clear the field.
Bug Report	VF-460	Test Runs unexpectedly reset to draft. Fixed an issue where if the Manual Runner was open and a previously executed Run was selected in the main ALM window, that run would be reset to Draft and have the Attachment History reset.
Bug Report	VF-448	Error in field update constraints for run step fields The ALM Adapter was updated to properly process updates to Run Step Fields during State-based Field Updates.
Bug Report	VF-447	Adding a constraint to update test case designer step field results in VERA error The ALM Adapter was updated to properly process updates to Test Step Fields during State-based Field Updates.
Enhancement Request	VF-405	Record Type Inheritance The VERA Core Library and the VERA QC/ALM Workflow script were updated to add support for Records Management Policy record types that can declare another type as a base type. No configuration changes were made as a part of this change. Associated configuration changes will be made under separate enhancement requests (for example, VF-365).
Enhancement Request	VF-430	Cache Approver username on subsequent signings VERA client updated to auto populate the username field in the signature dialog after successfully approving an entity with electronic signature in the current ALM session.



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Category	ID #	Name / Description
Enhancement Request	VF-429	<i>Project Parameters</i> Updated the VERA Windows client and the VERA QC/ALM script to support a Project Parameter Policy file with a Project Parameters dialog that can be accessed from the VERA Action Menu. The Project Parameter Policy file enables policy administrators to define the project parameters that are available for configuration. Using the Records Management Policy, policy administrators can control access to two new actions: View Project Parameters and Configure Project Parameters. The former provides read-only visibility to project parameter settings and the latter provides edit access to the project parameter values. Via the dialog, users with edit access can only modify the current values of the parameters made available from the policy file. Parameters can only be added/removed by editing the policy file directly. No configurations were updated to support this enhancement. The project parameter feature is optional and is not available by default.
Enhancement Request	VF-425	<i>Allow configuring "General" approval tasks (not associated with a group)</i> Updated the VERA Windows Client to support general approval tasks, which are approval tasks in an approval policy that are not associated with any specific role. When included in a route template, users will be prompted to select an approval role for these tasks at the time an approval route is started. The VERA Windows Client was also updated to improve the feature that pre-populates approval route configurations based on the last-used approval route for a record. This feature will support general approval tasks by pre-populating the last-used approval role when the Configure Approval Route screen is displayed. The VERA default policy files were NOT impacted by these changes. General approval tasks are not included in the VERA Standard Approval Policy.
Enhancement Request	VF-428	<i>Risk Assessments: calculate in "real-time" and allow on any req. type</i> Implemented real-time Risk Assessment calculations based on a Risk Assessment Policy. The display of Risk Assessment related fields can also be controlled (i.e. grouped together) using a new UI Configurations file. The Risk Assessment calculation feature also works when risk-assessed requirements are imported using the VERA CSV Importer.
Enhancement Request	VF-438	<i>Use major/minor numbering for revision numbering</i> Enhancement the Increment Action Element to be able to increment Integer-based and Segment-based numbers.



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Category	ID #	Name / Description
Bug Report	VF-423	Error Verifying Raw Signatures Across Time Zones The JSON parsing settings in the VERA Signature library were updated to preserve the original time zone of a signature's time stamp. The VERA Signature Verification feature was updated to provide backward compatibility with signatures impacted by this issue prior to this fix. The Verification feature will detect the signature's original time zone and use that time zone for hash verification.
Bug Report	VF-401	VERA doesn't respect Level Order Lock in Approval Route if the Approval Route field has a different order already The Core Engine was updated to significantly improve the logic for applying last-used configurations to an approval route when it is restarted. This issue was fixed as a subset of those changes. Reference backlog item 371/VF-425 for more information.
Bug Report	VF-397	Email notification link contains the senders user id instead of the receivers with HTTPS Fixed an issue in which the QC/ALM entity URLs embedded in VERA email notifications contained the user ID of the incorrect user when generated for an HTTPS server. This issue was fixed by changing the protocol format from 'testdirector:[s]' to 'tds'.
Bug Report	VF-392	Unrecognized action: Execution Grid.Run in test board of test set module for ALM 12.55 The VERA workflow script was updated to handle the "Run", "Run with Manual Runner", and "Continue Manual Run" actions from the test set folder Test Board view in the Test Lab module. All three actions are blocked by the workflow script, because workflow rules may not be consistently enforced from this view. For the "Run" and "Run with Manual Runner" commands, the user is instructed to select a test set and execute the run from the Execution Grid. For "Continue Manual Run", the user is instructed to select a test instance and continue the run from the Runs view.
Enhancement Request	VF-271	CSV File Importer (formerly Excel Add-in for VERA) Created a new way to import data from CSV (Comma Separated Values) files into VERA. The new VERA CSV Data Importer uses the project's Records Management Policy (and Risk Assessment Policy, if available) to import Requirements or Tests in a way that respects the workflow for the project.



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Category	ID #	Name / Description
Enhancement Request	VF-365	<p><i>FRA on Functional Requirements</i></p> <p>All VERA policy files were updated by replacing the <i>Risk Scenario</i> record type with a <i>Risk Requirement</i> record type. The <i>Risk Requirement</i> record type is a subtype of the standard <i>Requirement</i> record type with the following additional configurations:</p> <ol style="list-style-type: none">1. It applies to requirement entities in QC/ALM with a Requirement Type value of either <i>Risk Scenario</i> or <i>Functional</i>.2. It extends the standard requirement data fields to also include risk fields: Risk Severity, Risk Probability, Risk Detectability, Risk Class, Risk Priority, and Mitigation Strategy.3. It extends the rules for the Start Approval Routes action to enforce that a calculated Risk Priority is required for <i>Risk Scenario</i> requirements and optional for <i>Functional</i> requirements. Furthermore, a Mitigation Strategy is required for any requirement with a Risk Priority of <i>1-High</i>. <p>The VERA Standard QC/ALM template was modified by:</p> <ol style="list-style-type: none">1. Removing the Risk Status field from the <i>Risk Scenario</i> requirement type and replacing it with the standard Status field used by other requirement types.2. Adding the Risk Severity, Risk Probability, Risk Detectability, Risk Class, Risk Priority, and Mitigation Strategy fields to the <i>Functional</i> requirement type. <p>NOTE 1: Any existing project accepting these standard configurations will require an administrative SQL operation to:</p> <ol style="list-style-type: none">1. Move the status value of Risk Scenario requirements from the Risk Status field to the Status field.2. Convert any 'Calculated' state values to be 'Draft'. <p>This should be done prior to applying cross-project customizations, and it only impacts projects using Risk Scenarios.</p> <p>NOTE 2: Adding/removing the risk assessment feature to/from requirement types is a two-step operation:</p> <ol style="list-style-type: none">1. Update the requirement types associated with the <i>Risk Requirement</i> record type in the Records Management Policy.2. Update the QC/ALM template configurations to add/remove the risk fields to/from the requirement type.
Enhancement Request	VF-281	<p><i>Prevent updating Testers field when Continue Run is cancelled</i></p> <p>The VERA QC/ALM workflow script was modified to update the Testers field with a new tester's user ID after the Begin Run action, instead of immediately when the Manual Runner is displayed.</p> <p>NOTE: This resolution was already implemented in a limited branch of the VERA source code intended to support QC/ALM version 11.52. It was implemented there as a patch for a bug in the QC/ALM 11.52 workflow engine. Reference VF-410 for more information.</p>



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VERA 2.3 – 30 MAY 2018

Category	ID #	Name / Description
Bug Report	VF-399	<i>VERA uses an unsupported version of the MS .NET Framework</i> The VERA Windows Client was upgraded from the Microsoft .NET Framework version 4.0 to version 4.5.2. MS .NET 4.0 is no longer supported by Microsoft, and version 4.5.2 is the current, minimum supported version. NOTE: This change has impacted the minimum installation requirements for PCs using the VERA Windows Client. The machines must have the .NET Framework version 4.5.2 installed.
Other	VF-377	<i>Add Silent Install instructions for VERA client to Install Guide</i> A new section (Section 2.2.2) was added to the Installation and Deployment Guide (TX3.1022.GUI.004) describing the steps to run a silent installation.
Bug Report	VF-381	<i>Cannot Reopen Defect that had been routed for approval</i> The VERA core engine was updated to allow Revising/Re-opening records that have a "Not Started" approval route in the Approval Route field. This fix allows for the following event sequence on a defect: <ol style="list-style-type: none">1. Route a GxP defect for approval.2. Cancel the approval route.3. Reclassify the defect to be non-GxP.4. Directly close the defect without approval.5. Reopen the defect. <p>Prior to this fix, an error was generated when attempting to reopen such a defect (on Step 5, above).</p> <p>NOTE: This fix also prevents the same issue from occurring in the Test Lab module on test sets:</p> <ol style="list-style-type: none">1. Route a GxP test set for pre-execution approval.2. Cancel the approval route.3. Reclassify the test set to be non-GxP.4. Directly transition the test set to be Ready for Execution.5. Revise the test set.



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Category	ID #	Name / Description
Enhancement Request	VF-357	<i>VERA support for Tosca integration</i> VERA Core Engine Update The VERA Core Engine was updated to support cross-system workflow synchronizations between QC/ALM and Tosca. This feature is enabled by: <ol style="list-style-type: none">1. Adding a Synchronization Policy file to the QC/ALM root requirement attachments (with the other policy files)2. Updating the appropriate record types in the Records Management Policy file to contain a system definition for Tosca.3. Configuring a VERA Sync ID field in both systems that can be used by the system to correlate synchronized records across systems. The Synchronization Policy file, RMP updates, and the VERA Sync ID field(s) were not added to the VERA default configurations. Therefore, no synchronization is enabled by default. New System Adapters Two system adapters were added to the VERA Windows Client to support interfacing with the Tricentis Tosca system: the VERA REST Adapter and the VERA Tosca REST Adapter. These system adapters were added to the default VERA Windows Client installation, though they will not be used by the system if synchronizations with Tosca are not enabled.

VERA 2.2 – 03 APR 2018

Category	ID #	Name / Description
Enhancement Request	VF-374	<i>Add support for State-based constraints for actions in the ALM workflow</i> Added support for the following constraints to both the ALM Workflow and VERA Core: "State Is", "State Is One Of", "State Is Not", "State Is Not One Of", "Record Type Is", "Record Type Is One Of", "Record Type Is Not", "Record Type Is Not One Of". This will enable support for integration of VERA projects with SAP Solution Manager.
Bug Report	VF-368	<i>Action Menu can expand beyond the edge of the user's screen</i> The VERA Windows Client was updated to enforce a maximum size for the VERA Action Menu. When the Action Menu contains too many buttons for its size limit, then a vertical scroll bar will appear to allow scrolling through the available buttons that are not immediately visible. A maximum vertical height of 500px was established for the scrollable button area.
Bug Report	VF-340	<i>Continue Manual Runner - Existing run message typo</i> The VERA QC/ALM workflow script was updated to fix the typo in the "Existing Run Detected" warning message. The VERA User Guide was updated with a corrected screen shot.



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Category	ID #	Name / Description
Enhancement Request	VF-355	<i>Signature verification</i> Replacing legacy eApprove signature verification with VERA signature verification report that can be generated by VERA administrators. The signature verification report will render in HTML providing a summary of verification results and details of record failures.
Enhancement Request	VF-356	<i>Consecutive failed signature email notification</i> The Notifications Policy was enhanced to provide configuration settings for 'Consecutive Failed Signature' notifications. Policy Administrators can specify the number of consecutive failed signature attempts that will trigger a notification, and they can configure the user groups, user IDs, and/or email addresses that will receive an email notification when the threshold is reached. The default configuration is a threshold of 5 consecutive failed signatures, and the Policy Administrators group will receive the notification. The electronic approval feature of the VERA Windows client was updated to enforce the 'Consecutive Failed Signatures' policy. The application will track consecutive failed signature attempts within a single login session. Each time the user fails to provide valid credentials at the signature prompt, a warning will display that indicates the number of attempts that remain before they reach the configured threshold. If the threshold is reached, then an email notification will be sent to the user and to the configured list of recipients. The user will also then be prevented from completing additional signature attempts until they reset their login session. A successful signature will reset the count of consecutive failed signatures.

VERA 2.1.1 – 27 FEB 2018

Category	ID #	Name / Description
Bug Report	VF-302	<i>ALM 12.55: Attachment History is not populated when Routing Run for Approval</i> In ALM 12.55, the AUDIT_ATTACHMENTS site parameter needs to be set to 'Y' for the run Attachment History feature to work correctly. The VERA 2 Deployment and Installation Guide was updated to recommend this setting.



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Category	ID #	Name / Description
Bug Report	VF-353	<p><i>VERA Change History field does not use standardized date/time stamp format</i></p> <p>The VERA ALM workflow script was updated so that the test run "Change History" feature will record audit entries using the VERA standard format of: yyyy-MM-dd HH:mm:ss zzz. The feature was also updated to use the current user's local time (with UTC offset) instead of the server time, which is in alignment with the VERA standard functionality.</p> <p>The VERA core plugin was updated with a similar time stamp format for the Attachment History field. It is formatted identically to the VERA standard format, with the exception that the UTC offset is replaced with a "(Server Time)" indicator: yyyy-MM-dd HH:mm:ss (Server Time)</p>
Bug Report	VF-358	<p><i>Workflow script error when selecting Release and Cycle for Defects</i></p> <p>The VERA ALM workflow script was updated to provide generic exception handling for fields with non-standard data types (typically, fields that link to other modules). This change resolves the reported issue, and it also guards against future issues for non-standard fields, such as fields created by ALM extensions. (For example, build-related fields in the ALI extension could have had the same issue.)</p> <p>The workflow script was also updated to associate the <i>Target Release</i> and <i>Target Cycle</i> fields with the "Link to Release" and "Link to Cycle" actions. The default records management policy was updated to allow the default editors and Release Managers to execute those actions in any workflow state. (This change establishes consistency with the corresponding rules in other modules.)</p>
Bug Report	VF-363	<p><i>Incorrect error message displayed when blocking the edit link functionality for test coverage from requirements module</i></p> <p>The design of the Records Management Policy was enhanced to support for a "Description" element on Execution Rules and Action Exceptions. The Description can be used as built-in documentation for any configured rule. The Description will be used as the error message for negative (Deny) business rules.</p> <p>The VERA ALM workflow script was updated to use the Description as the error message when a 'Deny' rule is enforced, assuming a Description is available for that rule. The VERA core engine was updated to enforce the same functionality in the Action Menu.</p>



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VERA 2.1 – 01 FEB 2018

Category	ID #	Name / Description
Enhancement Request	VF-339	<i>Convert 'Revision History' to be 'Revision Reason'</i> <ul style="list-style-type: none">Updated the VERA ALM template to rename the requirement Revision History field to be Revision ReasonUpdated the VERA ALM template to rename the test case Revision History field to be Revision ReasonUpdated the records management policy so that the following actions overwrite the Revision Reason field with a revision reason, instead of appending a revision reason to Revision History:<ul style="list-style-type: none">Revise (<i>requirements and test cases</i>)Obsolete (<i>requirements and test cases</i>)Un-Obsolete (<i>requirements and test cases</i>)Defer (<i>requirements</i>)Un-Defer (<i>requirements</i>)
Bug Report	VF-344	<i>Error occurs between runs when using Run Test Set with the Execution Status set to Read Only</i> <p>Fixed an issue where an error would occur between runs when using the Run Test Set button.</p>
Rework	VF-337	<i>Add Cancelled and Obsolete states to test sets</i> <p>Reference backlog item # 266 for summary release notes of this enhancement.</p>
Bug Report	VF-321	<i>Revision History localizes the date stamp based on the current user's PC settings, instead of using a standardized format</i> <p>The VERA Core Plugin was updated to use a centralized formatting function to ensure all features use the same date/time formatting. The plugin uses the 'yyyy-MM-dd H:mm:ss zzz' format for all date/time stamps generated by the engine.</p> <p>The VERA Core Plugin was also updated to provide a local time server utility that will provide the local machine's current time for time-based operations.</p> <p>The VERA ALM OTA adapter was updated to utilize the local time server of the Core plugin instead of the ALM time server that was used previously.</p>
Enhancement Request	VF-308	<i>"Append To"/"Required Reason" should have date and Time instead of only date.</i> <p>Updated the VERA Core plugin to ensure that all transition reasons contain a time stamp in addition to the date stamp. This is a non-configurable property, all transition reasons will contain the time stamp moving forward.</p>



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Category	ID #	Name / Description
Enhancement Request	VF-345	<i>Change step Status label to Execution Status</i> Changed the Test Step Status field to be labeled Execution Status for consistency between entities and VERA versions.
Bug Report	VF-343	<i>Failure on smart copy/paste test set due to missing Change History field</i> Fixed smart copy and paste issue with Test Set by removing references to Change History field on test set.
Bug Report	VF-325, VF-326	<i>TestSet_IsDryRun and Run_MoveTo use the wrong state fields</i> Fixed issues where the dry run fields were not initialized correctly when Test Set and Test Run were configured to have different names by ensuring that the correct state fields were checked.
Bug Report	VF-316	<i>Test Set Designer is able to execute the Test Set in Draft status</i> In certain instances, a Test Set Designer can use the Run button to begin to execute a Test regardless of group membership, Test Set Status or Test Status. The Run cannot be saved since some required (but not editable) fields are missing. This behavior was only reproducible in HP ALM 11.52.
Bug Report	VF-315	<i>Error in Defect Module: Unhandled Exception When Selecting Subject</i> Fixed the issue where setting the Subject field in a Defect would cause an unhandled exception.
Bug Report	VF-318, VF314	<i>Missing Actions</i> Added the following missing actions to the workflow script: Test Lab.HostManager (and related additional actions) CommandList.Rename
Bug Report	VF-342	<i>Run Test Set action does not populate all run fields</i> Fixed the issue where running multiple tests with the Run Test Set button would not populate fields for any run other than the first.
Bug Report	VF-347	<i>Requirement Author unable to create a requirement when requirement folders Editors is set to Requirement Managers.</i> Fixed the issue where a user who was not allowed to create Requirement Folders could not create any Requirements if the last selected Requirement was a folder.



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Category	ID #	Name / Description
Bug Report	VF-198	<i>VERA plugins do not enforce hard version references between each other</i> Updated the VERA plugins to be built using strong names. This forces the .NET runtime to resolve plugin dependencies using the correct versions of the plugins. The ALM workflow script was also updated to improve the error handling that occurs when a versioned-dependency cannot be located.
Enhancement Request	VF-299	<i>Add ability to configure automatic state transitions of linked records when transitioning source record</i> Updated the VERA plugins to support Linked Transitions as an optional configuration element in the Records Management Policy. For each transition configuration, Policy Admins can specify linked transitions that will occur as a result of the base transition. A linked transition will occur on linked records of a specified type, given that all specified constraints (if any) are satisfied. No changes were made to the default records management policy, and so this configuration feature remains unused in the default VERA configurations.



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Category	ID #	Name / Description
Enhancement Request	VF-288	<p><i>Implement approval functionality for test sets in ALM.</i></p> <p>VERA Plugins: The VERA ALM Adapter was updated to support the data hashing functionality of VERA's electronic signatures on test set records. All other features associated with this enhancement were already implemented as a result of other Test Lab features in VERA 2.0.</p> <p>Records Management Policy: The default Records Management Policy was updated to specify both pre-execution and post-execution approval workflows for GxP-relevant test sets. The following actions for test sets were defined (or redefined, as applicable):</p> <p><i>New Actions:</i></p> <ul style="list-style-type: none">• Start Pre-Execution Approval Route(s): Route a test set for pre-execution approval. Applies to GxP-relevant test sets only. Transition: Draft --> Routing for Pre-Execution Approval• Withdraw Pre-Execution Approval Route(s): Withdraw a test set from pre-execution approval. Transition: Routing for Pre-Execution Approval or Pre-Execution - Rejected --> Draft• Approval Task(s): Approve, reject, or reassign a test set that is routing for pre-execution approval. Transition: Routing for Pre-Execution Approval --> Ready for Execution or Pre-Execution - Rejected• Start Post-Execution Approval Route(s): Route a test set for post-execution approval. Applies to GxP-relevant test sets only. Transition: Ready for Execution or Complete --> Routing for Post-Execution Approval• Withdraw Post-Execution Approval Route(s): Withdraw a test set from post-execution approval. Transition: Routing for Post-Execution Approval or Post-Execution - Rejected --> Ready for Execution• Approval Task(s): Approve, reject, or reassign a test set that is routing for post-execution approval. Transition: Routing for Post-Execution Approval --> Approved or Post-Execution - Rejected• Reassign Task(s) as Admin: Reassign pre-execution or post-execution approval tasks from one approver to another. <p><i>Changes to Existing Actions:</i></p> <ul style="list-style-type: none">• Start Test Set(s): Is only available for non-GxP-relevant test sets• Revise Test Set(s): Enhanced to increment a revision number and to require a revision reason.• Smart Paste: Updated to reset the new approval-related fields. (Approval Route, Signatures, etc.)• Smart Delete: Updated to prevent deleting test sets that are Revision 2 or greater. Existing rules will remain. <p>The editability rules for test sets were updated to prevent editing data fields and adding/removing test instances in test sets that are pre-execution approved.</p> <p>Approval Policy: A default approval policy was defined for all test set approval routes: Content Originator --> Business --> Quality</p> <p>Notification Policy: The notification policy was updated to enable email notifications for test set approval tasks and task assignment tasks.</p>



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Category	ID #	Name / Description
Enhancement Request	VF-265	Create constraints for test cases that query requirement fields Implemented a constraint to check field values of linked records. This will allow for a constraint to check the fields of Requirements that are covered by a Test.
Enhancement Request	VF-266	Warn Tester about Existing Test Run Updated the workflow script with a hard-coded feature that will warn a tester when they use the Run command on a test instance for which there is an existing <i>Passed</i> or <i>Not Completed</i> test run. Dry Run test sets are exempted from this feature.
Enhancement Request	VF-269	New Defect or Link existing Defect should be required if user selects "Passed with Incident" or "Failed" run step status Updated the workflow script to support an "Update Rules" property of field configurations in the Records Management Policy. This property can be used to specify rules enforcing when a specific field may be updated to a specific value. No updates were made to the default Records Management Policy to make use of this configuration item.
Enhancement Request	VF-270	Additional Approvers should be added before the final approver as defined in record management policy Updated the VERA plugins to support "Always Last" as an optional configuration element in the Approval Policy. For each approval route template, Policy Admins can specify that the task in the final level of the route must always be the last task in the route. This configuration will cause VERA to enforce that those approvers are in the final configured task level when an approval route is started, and also that they are exclusively in the final task level. No changes were made to the default approval policy, and so this configuration feature remains unused in the default VERA configurations.



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Category	ID #	Name / Description
Enhancement Request	VF-289	<i>Support multiple approval cycles within a single life cycle</i> Updates to the VERA Core Plugin: <ul style="list-style-type: none">- Created a "Route Type" definition that supports configuration of the meaning and workflow states associated with a route type.- Updated the VERA Records Management Policy schema to include a listing of Route Type definitions.- Update the VERA Approval Policy schema to support associating a route template with a route type.- Updated format of VERA signatures to include a 'route type' designation- Added support for selectively clearing signatures based on the associated route type. Updates to the VERA ALM OTA Adapter <ul style="list-style-type: none">- Removed usage of hard-coded 'Approved', 'Rejected', and 'Closed' route transition states from the ALM OTA Adapter.- Updated format of Approval Route field to include the name of the Route type Updates to the Records Management Policy <ul style="list-style-type: none">- Defined a Pre-Execution Approval route type- Defined a Post-Execution Approval route type- Added two new actions to start pre-execution and post-execution approval routes for test sets- Added two new actions to withdraw pre-execution and post-execution approval routes for test sets- Added the following workflow states to test sets: <i>Routing for Pre-Execution Approval, Rejected - Pre-Execution, Routing for Post-Execution Approval, Rejected - Post-Execution, and Approved</i> Update to the VERA ALM 12.53 template <ul style="list-style-type: none">- Added the following fields to test set entities: <i>Approval Route, Pending Tasks, Signatures, Signatures (Raw), and Rejection Reason</i>- Updated the test set Status field list to reflect the updated list of workflow states (described above)
Enhancement Request	VF-291	<i>Implement ability to specify the end-state of an approved record.</i> This feature was implemented as a by-product of implementing VF-289. The enhancement to support multiple route types allows an admin to specify the end-state of each configured route type. No additional changes are necessary to implement this feature.
Enhancement Request	VF-292	<i>Support approval route templates with locked task sequences.</i> Updated the VERA plugins to support "Lock Task Order" as an optional configuration element in the Approval Policy. Wherever this attribute is applied, the associated approval tasks will have locked task orders, meaning that the task(s) cannot be reassigned to another level of approval while configuring/starting an approval route. This property can be applied to the entire approval policy, one or more route templates, one or more levels within a route template, or to one or more tasks within a level. No changes were made to the default approval policy, and so this configuration feature remains unused in the default VERA configurations.



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Category	ID #	Name / Description
Enhancement Request	VF-293	Implement Dry Run Test Sets Added ability to set Test Sets to Dry Run and create Dry Runs.
Bug Report	VF-277	Cannot execute test runs when the Test Case status field is renamed Fixed bug where you could not run Tests if the Status field was renamed.
Bug Report	VF-275	The Field = Name does not exist on the current record Fixed issue where the Test Instance Name was not displayed in VERA dialogs for ALM 11.52.
User Story	Vera.HpAlm. Email.Defect sTask	Implement User Story 'Defect Task' No changes were necessary to implement this feature. This feature was automatically implemented as a by-product of fixing backlog item 214.
User Story	Vera.HpAlm. Email.Defect sApproval	Implement User Story 'Defect Approval' No changes were necessary to implement this feature. This feature was automatically implemented as a by-product of fixing backlog item 214.
User Story	Vera.HpAlm. Email.RunsT ask	Implement User Story 'Test Run Task' No changes were necessary to implement this feature. This feature was automatically implemented as a by-product of fixing backlog item 214.
User Story	Vera.HpAlm. Email.RunsA pproval	Implement User Story 'Test Run Approval' No changes were necessary to implement this feature. This feature was automatically implemented as a by-product of fixing backlog item 214.
User Story	Vera.HpAlm. Email.TestsT ask	Implement User Story 'Test Case Task' No changes were necessary to implement this feature. This feature was automatically implemented as a by-product of fixing backlog item 214.
User Story	Vera.HpAlm. Email.Tests Approval	Implement User Story 'Test Case Approval' No changes were necessary to implement this feature. This feature was automatically implemented as a by-product of fixing backlog item 214.
User Story	Vera.HpAlm. Email.ReqsT ask	Implement User Story 'Requirement Task' No changes were necessary to implement this feature. This feature was automatically implemented as a by-product of fixing backlog item 214.



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Category	ID #	Name / Description
User Story	Vera.HpAlm. Email.ReqsA pproval	Implement User Story 'Requirement Approval' No changes were necessary to implement this feature. This feature was automatically implemented as a by-product of fixing backlog item 214.
Bug Report	VF-294	Task cancelled and task withdrawn email configuration incorrect Corrected Task Emails. Enabled emails for Test Runs.
Enhancement Request	VF-280	Create constraints for test sets that query test case and test run fields Updated the ALM Adapter plugin to streamline and enhance supporting cross-entity link/field checking. The adapter now supports verifying linkages between requirements, test cases, test sets, test runs, and defects, in any combination.
Enhancement Request	VF-273	Support custom actions in VERA 2x Added support for custom actions through the Records Management Policy and custom workflow scripts attached to the Root Requirement.
Enhancement Request	VF-287	Implement User Story 'Edit Test Results' Updated the default Records Management Policy to allow Testers to edit the Run Execution Status, Step Execution Status, and Actual Results fields of a test run when the run is in the <i>Draft</i> state. Added hard-coded logic to the workflow script to enforce that a Change Reason is always required to edit the Run Status field. It also enforces that a Change Reason is required when changing the Step Execution Status or Actual Results, but only after the Step Execution Status has been set to a value other than No Run. The change reasons are stored in a new field on the run entity called Change History.
Enhancement Request	VF-290	Implement a standard GAMP 5 risk assessment in VERA 2.x Added the ability to create Risk Scenarios and perform a GAMP 5 risk assessment on those scenarios.

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Category	ID #	Name / Description
User Story	Vera.HpAlm. RecMgmt.Ts tSetFldrs.Ln kCycl	Assign Test Set Folder to Cycle Updated workflow script to support controlling linkage between a test set folder and a cycle. Updated the records management policy with an additional rule to allow this feature for Release Managers. (Test Set Designers received it by default.) Documented a known limitation with the Assigned to Cycle field.



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Category	ID #	Name / Description
User Story	Vera.HpAlm. TstMgmt.Tst Exe.LogTstr s	<i>Implement User Story 'Log Testers'</i> Updated the workflow script to initialize the Testers field when a run is created, and also to conditionally update the Testers field when a run execution is continued.
User Story	Vera.HpAlm. TstMgmt.Tst Exe.CntnFr ml	<i>Implement User Story 'Continue Formal Test Execution'</i> Updated the workflow script to allow continuing a run when the run is editable. Also added a special rule to prevent continuing a run from the Execution Grid.
Bug Report	Vera.HpAlm. Win.Apprvl.B ugs.RprtApp rvd	<i>Defect "Approved" should be set to "Y" for approved defects and "N" for all others</i> Updated the records management policy to ensure that the Approved field of a defect record is set to Y when entering the Closed workflow state with signatures. Otherwise, the field is set to N when closing. Also added a configuration that the field will be updated to N when setting to the Open state.
Rework	Vera.HpAlm. Win.ImprtdR ecs.RevNum	<i>Missing requirement for initializing a blank Revision Number on Start Approval Route</i> A new user story with acceptance criteria was created to document the initialization of a blank Revision Number while routing for approval.
User Story	Vera.HpAlm. Win.Apprvl.B ugs.Reassig nTskAdmn	<i>Implement User Story 'Reassign Task (Admin)'</i> Updated the records management policy to configure the Defect Administrator role as the default admin role for defect records and to enable the Reassign Tasks as Admin feature for defect records.
User Story	Vera.HpAlm. Win.Apprvl.R eqs.Reassig nTskAdmn	<i>Implement User Story 'Reassign Task (Admin)'</i> Updated the records management policy to configure the Requirement Administrator role as the default admin role for requirement records and to enable the Reassign Tasks as Admin feature for requirement records.
User Story	Vera.HpAlm. Win.Trnstns. Runs.Trnstn	<i>Implement User Story 'Basic Transitions'</i> Updated the workflow script and ALM OTA Adapter to support the Test Runs module. Updated the records management policy to expand the Cancel and Cancel actions to include Test Runs.



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Category	ID #	Name / Description
User Story	Vera.HpAlm. Win.Trnstns. TestSets.Trn stn	<i>Implement User Story 'Basic Transitions'</i> Updated the workflow script and ALM OTA Adapter to support the VERA Action Menu in the Test Lab module. Updated the Records Management Policy with the following actions: <ul style="list-style-type: none">• Start Test Set(s): Transition a test set to Ready for Execution• Complete Test Set(s): Transition a test set to Complete• Revise Test Set(s): Transition a test set to Draft
User Story	Vera.HpAlm. TstMgmt.Tst Exe.Frml	<i>Implement user story 'Formal Test Execution (Standard)'</i> Updated the workflow script to support the creation and execution of test runs (including enforcing pre-execution approval rules). Updated the records management policy to implement the default configurations for test run field editability and default values.
User Story	Vera.HpAlm. TpltCnfg.St atusFld.Conf ig	<i>Cannot rename the Status field</i> The core engine was updated to entirely reference the status field configured by the records management policy when transitioning records through a workflow.
User Story	Vera.HpAlm. RecMgmt.Ts ts.CreateFro mReq	<i>Implement User Story 'Create from Requirement'</i> Updated the workflow to recognize the 'Convert to Tests' action and to associate that action with the permissions for creating new test cases. No updates were necessary for the records management policy.
User Story	Vera.HpAlm. RecMgmt.Re qs.AssignTo Cyc	<i>Implement User Story 'Assign to Cycle'</i> Updated the workflow script to evaluate the availability of the "Assign to Cycle" action and the editability of the Target Cycle field of a requirement with the "Edit Link to Cycle" configurations. Updated the records management policy to configure that a Requirement Author or Release Manager can edit the linkage between requirements and cycles.
User Story	Vera.HpAlm. RecMgmt.Re qs.AssignTo Rel	<i>Implement User Story 'Assign To Release'</i> Updated the workflow script to evaluate the availability of the "Assign to Release" action and the editability of the Target Release field of a requirement with the "Edit Link to Release" configurations. Updated the records management policy to configure that a Requirement Author or Release Manager can edit the linkage between requirements and releases.
User Story	Vera.HpAlm. Win.Trnstns. Bugs.Trnstn	<i>Implement User Story 'Basic Transitions'</i> Added the following basic transitions for defects: Defer, Open Investigation, Start Verification, Reset to New, Close, Reopen



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Category	ID #	Name / Description
User Story	Vera.HpAlm. Win.Trnstns. Reqs.Trnstn	<i>Implement User Story 'Basic Transitions'</i> Updated the Records Management Policy to support the following actions on requirements: Requirement Author: <ul style="list-style-type: none">• Cancel: Transition from "Draft" to "Cancelled"• Uncancel: Transition from "Cancelled" to "Draft" Requirement Manager <ul style="list-style-type: none">• Obsolete: Transition from "Approved" to "Obsolete", with transition reason• Un-Obsolete: Transition from "Obsolete" to "Approved", with transition reason• Defer: Transition from "Approved" to "Deferred", with transition reason• Un-Defer: Transition from "Deferred" to "Approved", with transition reason NOTE: The flag for a transition reason was added to the Obsolete and Un-Obsolete actions. This was previously "hard-coded" functionality that has now been made configurable. This necessitates a retest of those transitions for test case records.
Rework	Vera.Win.Ap prvIWrkflws. Rjct	<i>Execute test 253 rev 2 step 2</i> N/A
User Story	Vera.HpAlm. RecMgmt.Re qs.LnkNewB ug	<i>Implement User Story 'Edit Defect Link (w/ Create)'</i> Added the ability for a general user to create and link a Defect to a Requirement.
User Story	Vera.HpAlm. Win.SmrtCo py.TstSets.C opy	<i>Implement User Story 'Copy'</i> Added Smart Copy for Test Sets and Test Set Folders.
User Story	Vera.HpAlm. Win.Apprvl.R uns.Wthdrw Rte	<i>Implement User Story 'Withdraw Approval Route'</i> Added the ability to withdraw Runs from approval routes.
User Story	Vera.HpAlm. Win.Apprvl.R uns.StartRte	<i>Implement User Story 'Start Approval Route'</i> Updated the Approval Policy with approval routes for Test Run record types. Updated the Records Management Policy with additional definition details about Test Run record types to support the routing for approval feature. Also, updated the Records Management Policy to enable "Start Approval Routes" action for the Test Run record type. Updated the VERA plug-ins to trigger the Attachment History feature when routing a test run for approval.



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Category	ID #	Name / Description
User Story	Vera.HpAlm. Win.Apprvl.R uns.Reject	<i>Implement User Story 'Reject'</i> No changes were needed to implement this feature. This feature was automatically implemented while implementing the 'Approve' feature.
User Story	Vera.HpAlm. Win.Apprvl.R uns.ReassignTskAdmn	<i>Implement User Story 'Reassign Task (Admin)'</i> Updated the Records Management Policy to define Test Administrators as the default admins of test runs, and also to enable the Reassign Task feature for test runs.
User Story	Vera.HpAlm. Win.Apprvl.R uns.Apprv	<i>Implement User Story 'Approve'</i> Updated the Records Management Policy to enable the Start Approval Routes action for test runs, and also to specify the data fields of a test run. Updated the Approval Policy with the default approval routes for test runs. Updated the ALM Adapter with support for generating signature hashes for test runs (with steps).
User Story	Vera.HpAlm. Win.SmrtCopy.Reqs.Copy	<i>Implement User Story 'Copy'</i> The VERA plugins and records management policy were updated to support the Smart Copy feature on requirement records. The plugins were also updated to remove the feature to copy linkages when copying entities.
User Story	Vera.HpAlm. Win.Revise. Reqs.Revise	<i>Implement User Story 'Revise'</i> Updated the VERA Engine to allow transition reasons and number increments to be configurable for each transaction. Updated the records management policy such that the Revise action explicitly requires a transition reason and increments the Revision Number. Also updated the Records Management Policy to specify Requirement Manager as a default manager for requirements, which grants them access to the Revise feature.
User Story	Vera.HpAlm. Win.Apprvl.R eqs.Wthdrw Rte	<i>Implement User Story 'Withdraw Approval Route'</i> The default Records Management Policy was updated to allow Requirement Authors and Policy Administrators to withdraw approval routes on requirement records that are in the <i>Routing for Approval</i> or <i>Rejected</i> states.
User Story	Vera.HpAlm. Win.Apprvl.R eqs.StartRte	<i>Implement User Story 'Start Approval Route'</i> The default Records Management Policy was updated to enable Requirement Authors to start approval routes for requirement records that are in the <i>Draft</i> status. Also, the default Approval Policy was updated to include the default approval routes for requirement records as specified by the VERA configuration requirements.



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Category	ID #	Name / Description
User Story	Vera.HpAlm. Win.Apprvl.R eqs.Reject	<i>Implement User Story 'Reject'</i> Fixed minor issues in the VERA ALM OTA adapter to support rejecting records from the HP ALM Requirements module.
User Story	Vera.HpAlm. Win.Apprvl.R eqs.Apprv	<i>Implement User Story 'Approve'</i> Fixed minor issues in the VERA ALM OTA adapter to support approving records from the HP ALM Requirements module.
User Story	Vera.HpAlm. Win.Apprvl.B ugs.Wthdrw Rte	<i>Implement User Story 'Withdraw Approval Route'</i> Added the ability to withdraw a defect from the approval route.
User Story	Vera.HpAlm. Win.Apprvl.B ugs.StartRte	<i>Implement User Story 'Start Approval Route'</i> Added the ability to route Defects for approvals.
User Story	Vera.HpAlm. Win.Apprvl.B ugs.Reject	<i>Implement User Story 'Reject'</i> Updated the default Records Management Policy to activate the Approval Tasks feature for defect records.
User Story	Vera.HpAlm. Win.Apprvl.B ugs.Apprv	<i>Implement User Story 'Approve'</i> Updated the default Records Management Policy to activate the Approval Tasks feature for defect records.
User Story	Vera.HpAlm. Win.ActMnu. Req	<i>Implement User Story 'Requirement Context'</i> No changes were necessary to implement this feature. This feature has remained unimpacted from the VERA 1.x releases.
User Story	Vera.HpAlm. Win.ActMnu. Bug	<i>Implement User Story 'Defect Context'</i> No changes were necessary to implement this feature. This feature has remained unimpacted from the VERA 1.x releases.
User Story	Vera.HpAlm. Win.SmrtDel .TstSetFlder s.Del	<i>Implement User Story 'Delete'</i> Updated the ALM Adapter to support deleting test set folders. Updated the records management policy to allow the Smart Delete action for test set folders.
User Story	Vera.HpAlm. Win.SmrtDel .TstSets.Del	<i>Implement User Story 'Delete'</i> Updated the ALM Adapter to support deleting test set folders. Updated the records management policy to allow the Smart Delete action for test set folders.



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Category	ID #	Name / Description
User Story	Vera.HpAlm. Win.SmrtDel .Reqs.Del	<i>Implement User Story 'Delete'</i> Implemented the Smart Delete action for requirements. The default configurations are that Requirement Authors and Requirement Administrators can use the Smart Delete feature for requirements that are Draft, Revision 1, and have no hierarchical children. This default configuration can be modified through the records management policy.
User Story	Vera.HpAlm. Win.Revise. Tsts.Obsolete	<i>Implement User Story 'Obsolete'</i> Added the Obsolete Action for Tests. Implemented the ability to have an action only available for a state if a field value condition is met.
User Story	Vera.HpAlm. TstMgmt.Co nfig.RunInit	<i>Implement User Story 'Run Initialization'</i> Added the ability to initialize fields in a Run from the associated Test Case or Test Set.
User Story	Vera.HpAlm. RecMgmt.Pin Bsln	<i>Implement User Story 'Baseline Pinning'</i> Updated the workflow script to add a hard-coded configuration that the Pin/Unpin Baseline actions are not permitted when a test set contains runs. Also, updated the workflow script to enforce the editability of the Baseline field of test set records to follow the same rules as the Pin/Unpin actions.
User Story	Vera.HpAlm. RecMgmt.Bl ckLst	<i>Implement User Story 'Blacklist'</i> Updated the workflow script to prevent a user from logging into a VERA project when they are assigned to the Developer, Project Manager, or QATester user groups. Implemented an exception that TDAAdmin permissions supersede the blacklisted user roles thus always allowing a TDAAdmin to login to a project.
User Story	Vera.HpAlm. RecMgmt.Bu gs.Attach	<i>Implement User Story 'Edit Attachments'</i> Updated the workflow script to support records management of defect records, and updated the Records Management Policy to enforce that Defect Managers, Testers, and Defect Creators can edit a defect's attachments when in the New, Open, Ready to Verify, and Deferred states.
User Story	Vera.HpAlm. RecMgmt.Bu gs.Unlink	<i>Implement User Story 'Unlink Other'</i> Updated the workflow script to support records management of defect records, and updated the Records Management Policy to ensure all users are permitted to remove links between defects and non-defect records.



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Category	ID #	Name / Description
User Story	Vera.HpAlm. RecMgmt.Bu gs.LnkReq	<i>Implement User Story 'Link Requirement'</i> Updated the workflow script to support records management of defect records, and updated the Records Management Policy to ensure all users are permitted to add links between defects and requirements.
User Story	Vera.HpAlm. RecMgmt.Bu gs.LnkBug	<i>Implement User Story 'Edit Defect Link'</i> Updated the workflow script to support records management of defect records, and updated the Records Management Policy to ensure all users are permitted to edit links between defects.
User Story	Vera.HpAlm. RecMgmt.Bu gs.Metadata	<i>Implement User Story 'Edit Metadata'</i> Updated the workflow script to support records management of defect records, and updated the Records Management Policy to enforce that Defect Managers, Testers, and Defect Creators can edit the non-data fields of a defect when in the New, Open, Ready to Verify, and Deferred states. The data fields are defined by configuration requirement: Vera.DftRcrdsMgmtPlcy.Dfcts.Flds.Data
User Story	Vera.HpAlm. RecMgmt.Bu gs.Data	<i>Implement User Story 'Edit Data'</i> Updated the workflow script to support records management of defect records, and updated the Records Management Policy to enforce that Defect Managers, Testers, and Defect Creators can edit the data fields of a defect when in the New, Open, Ready to Verify, and Deferred states. The data fields are defined by configuration requirement: Vera.DftRcrdsMgmtPlcy.Dfcts.Flds.Data
User Story	Vera.HpAlm. RecMgmt.Bu gs.Duplicate	<i>Implement User Story 'Duplicate'</i> Updated the workflow script to support records management of defect records, and updated the Records Management Policy to enforce that no users can copy defects.
User Story	Vera.HpAlm. RecMgmt.Bu gs.Delete	<i>Implement User Story 'Delete'</i> Updated the workflow script to support records management of defect records, and updated the Records Management Policy to enforce that no users can delete defects.
User Story	Vera.HpAlm. RecMgmt.Bu gs.Create	<i>Implement User Story 'Create'</i> Updated the workflow script to support records management of defect records, and updated the Records Management Policy to ensure all users are permitted to create defects.



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Category	ID #	Name / Description
User Story	Vera.HpAlm. RecMgmt.Bu gs.Comment	<i>Implement User Story 'Comment'</i> Updated the default Records Management Policy such that any user can use the Add Comment button and edit the Comments field of a defect when the Status is New, Opened, Ready to Verify, or Deferred.
User Story	Vera.HpAlm. RecMgmt.Ru ns.Attach	<i>Implement User Story 'Edit Attachments'</i> No changes were necessary to implement this feature.
User Story	Vera.HpAlm. RecMgmt.Ru ns.LnkBug	<i>Implement User Story 'Edit Defect Link'</i> Added the ability to edit defect links to Runs.
User Story	Vera.HpAlm. RecMgmt.Ru ns.Metadata	<i>Implement User Story 'Edit Metadata'</i> No changes were necessary to implement this feature.
User Story	Vera.HpAlm. RecMgmt.Ru ns.Data	<i>Implement User Story 'Edit Data'</i> Updated the records management policy with complete set of run and run step fields identified as data fields. Updated the workflow script with a hard-coded feature to prevent editing the Actual and Status fields of a run step outside of Manual Runner.
User Story	Vera.HpAlm. RecMgmt.Ru ns.Delete	<i>Implement User Story 'Delete'</i> Added a message to indicate the deletion of Runs is disabled.
User Story	Vera.HpAlm. RecMgmt.Ru ns.Comment	<i>Implement User Story 'Comment'</i> Added the ability for users to enter comments on Runs when the run is editable.
User Story	Vera.HpAlm. RecMgmt.Ts tSetFldrs.Att ach	<i>Implement User Story 'Edit Attachments'</i> No changes were necessary to implement this feature. This feature was automatically implemented as a by-product of the user stories 'Vera.HpAlm.RecMgmt.TstSetFldrs.Create' and 'Vera.HpAlm.RecMgmt.TstSets.Attach'.
User Story	Vera.HpAlm. RecMgmt.Ts tSetFldrs.Mo ve	<i>Implement User Story 'Move'</i> Updated the workflow script to support the cut/paste actions on test set folders. No updates were necessary to the configurations, as this story follows default user permissions.



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Category	ID #	Name / Description
User Story	Vera.HpAlm. RecMgmt.Ts tSetFldrs.Me tadata	<i>Implement User Story 'Edit Metadata'</i> No changes were necessary to implement this feature. This feature was automatically implemented as a by-product of the user story 'Vera.HpAlm.RecMgmt.TstSetFldrs.Create'.
User Story	Vera.HpAlm. RecMgmt.Ts tSetFldrs.Du plicate	<i>Implement User Story 'Duplicate'</i> No changes were necessary to implement this feature. This feature was automatically implemented as a by-product of the user story 'Vera.HpAlm.RecMgmt.TstSets.Duplicate'.
User Story	Vera.HpAlm. RecMgmt.Ts tSetFldrs.Del ete	<i>Implement User Story 'Delete'</i> Implemented the message to inform users to use the VERA Smart Delete.
User Story	Vera.HpAlm. RecMgmt.Ts tSetFldrs.Cr eate	<i>Implement User Story 'Create'</i> Added the ability to create Test Set Folders.
User Story	Vera.HpAlm. RecMgmt.Ts tSets.Attach	<i>Implement User Story 'Edit Attachments'</i> Added the ability for Test Set Designers to add, edit and remove attachments when a Test Set is in an editable state.
User Story	Vera.HpAlm. RecMgmt.Ts tSets.LnkTst	<i>Implement User Story 'Edit Test Case Link'</i> Updated workflow to add support for actions associated with adding/removing test instances. Also updated workflow with a hard-coded rule that test instances cannot be removed when they are associated with test runs. No update to the records management policy was necessary.
User Story	Vera.HpAlm. RecMgmt.Ts tSets.Move	<i>Implement User Story 'Move'</i> Updated the records management policy to allow Test Managers to move test sets in any workflow state. (Test Set Designers already had the necessary permissions.) Updated the workflow to add support for the test set cut/paste actions.
User Story	Vera.HpAlm. RecMgmt.Ts tSets.LnkBu g	<i>Implement User Story 'Edit Defect Link'</i> Updated the records management policy to allow any user to link a new or existing defect to a test set. Also, fixed a bug in which the Defect Creator editability functionality did not work correctly outside of the Defects module, thus preventing a Defect Creator from submitting a new defect from Test Lab.



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Category	ID #	Name / Description
User Story	Vera.HpAlm. RecMgmt.Ts tSets.Metad ata	<i>Implement User Story 'Edit Metadata'</i> Updated the workflow script to ensure that the editability of a test set and test instance follows the configuration of the records management policy.
User Story	Vera.HpAlm. RecMgmt.Ts tSets.Duplic ate	<i>Implement User Story 'Duplicate'</i> Updated the workflow script to display a message directing the user to use Smart Copy every time the user selects use the native copy feature on a test set.
User Story	Vera.HpAlm. RecMgmt.Ts tSets.Delete	<i>Implement User Story 'Delete'</i> Added a message to inform users to use the Smart Delete feature to delete Test Sets.
User Story	Vera.HpAlm. RecMgmt.Ts tSets.Create	<i>Implement User Story 'Create'</i> Created a default configuration for the Test Set record type with Test Set Designer as the default editor. Updated with workflow script with basic functionality for test sets and Test Lab (including always/never allowed actions).
User Story	Vera.HpAlm. RecMgmt.Re qs.Attach	<i>Implement User Story 'Edit Attachments'</i> Added the ability for Requirement Authors to add, edit and remove attachments from a Requirement when it is in the Draft State.
User Story	Vera.HpAlm. RecMgmt.Re qs.Duplicate	<i>Implement User Story 'Duplicate'</i> Added a message to indicate that the Copy action is not allowed and to direct the user to the Smart Copy feature.
User Story	Vera.HpAlm. RecMgmt.Re qs.LnkBug	<i>Implement User Story 'Edit Defect Link'</i> Added the ability for any user to add or remove from a Requirement a link to an existing Defect.
User Story	Vera.HpAlm. RecMgmt.Re qs.LnkTst	<i>Implement User Story 'Edit Test Case Link'</i> Added the ability for Requirement Authors and Test Designers to edit links from Requirements to Test Cases.
User Story	Vera.HpAlm. RecMgmt.Re qs.Move	<i>Implement User Story 'Move'</i> Added the ability for Requirement Authors and Requirement Managers to move Requirements based on the Records Management Policy.



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Category	ID #	Name / Description
User Story	Vera.HpAlm. RecMgmt.Re qs.Delete	Implement User Story 'Delete' An error message will be displayed when a user attempts to use the ALM Delete button for Requirements. The message will inform the user to use the Smart Delete feature.
User Story	Vera.HpAlm. RecMgmt.Re qs.LnkReq	Implement User Story 'Edit Requirement Link' Added the ability for a Requirement Author to edit traceability for a Requirement in any state.
User Story	Vera.HpAlm. RecMgmt.Re qs.Create	Implement User Story 'Create' Added the ability for Requirement Editors to create new Requirements.
User Story	Vera.HpAlm. RecMgmt.Re qs.Metadata	Implement User Story 'Edit Metadata' Added the ability to edit metadata fields for requirements.
User Story	Vera.HpAlm. RecMgmt.Re qs.Data	Implement User Story 'Edit Data' Added the ability edit data fields on requirements when the requirement is in an editable state.
User Story	Vera.HpAlm. RecMgmt.Re qs.Comment	Implement User Story 'Comment' Added the ability for any general user to comment or edits the comments of a Requirement in the Draft state.
User Story	Vera.Win.Su pport.Versio ns.ExtComp onents	Implement User Story 'External Software Component Versions' Added the Software Components section and the Tx3 Workflow DLL files' version numbers to the Version Information dialog.
User Story	Vera.Win.Su pport.Versio ns.Policies	Implement User Story 'Policies' Added the Records Management Policy version number to the Version Information dialog.
User Story	Vera.Win.Su pport.Versio ns.Compone nts	Implement User Story 'Software Component Versions' Added a Version Information link to the VERA Action Menu that, when clicked, displays the Version Information for the various components of VERA.
User Story	Vera.HpAlm. Win.Version s.HpScript	Implement User Story 'Workflow Script Version' Added the Workflow Script version to the Version Information display in the VERA Action Menu.



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Category	ID #	Name / Description
User Story	Vera.HpAlm. Win.ActMnu. Tsts	<i>Implement User Story 'Test Case Context'</i> No changes were necessary to implement this feature. This feature has remained unimpacted from the VERA 1.x releases.
User Story	Vera.HpAlm. Win.ActMnu. TstFldrs	<i>Implement User Story 'Test Case Folder Context'</i> No changes were necessary to implement this feature. This feature has remained unimpacted from the VERA 1.x releases.
User Story	Vera.HpAlm. Win.Apprvl.R teConfig.Cre ate	<i>Implement User Story 'Create Route Template (via Records Management Policy)'</i> Removed the approval policy configurations from the Records Management Policy into a separate policy file for the Approval Policy. Configured the default approval groups for the VERA Template as: Business, Process Owner, Quality, System Owner, Technical, and Validation. Also configured the default approval route templates for test case records.
User Story	Vera.HpAlm. RecMgmt.Ts tFldrs.Attach	<i>Implement User Story 'Edit Attachments'</i> Added a default configuration that Test Designers can edit the attachments of test folders in the Test Plan module. This default configuration can be changed by updating a project's records management policy. NOTE: A known limitation of HP ALM exists in which the Description field of attachments is available for editing, regardless of user permissions or workflow status.
User Story	Vera.HpAlm. RecMgmt.Ts tFldrs.Duplic ate	<i>Implement User Story 'Duplicate'</i> No software changes were necessary for this feature. This functionality was implemented as a by-product of implementing user story <i>Vera.HpAlm.RecMgmt.Tsts.Duplicate</i> .
User Story	Vera.HpAlm. RecMgmt.Ts tFldrs.Move	<i>Implement User Story 'Move'</i> Added a default configuration that Test Designers can move test folders within the test plan tree. This default configuration can be changed by updating a project's records management policy.
User Story	Vera.HpAlm. RecMgmt.Ts tFldrs.Data	<i>Implement User Story 'Edit Data'</i> Added a default configuration that specifies the <i>Name</i> and <i>Description</i> fields to be the data fields of a test folder. As the default editors of test folders, users in the Test Designer group can edit these fields. This default configuration can be changed by updating a project's records management policy.



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Category	ID #	Name / Description
User Story	Vera.HpAlm. RecMgmt.Ts tFldrs.Delete	Implement User Story 'Delete' Updated the workflow to always prevent the <i>Delete</i> command on a test folder in the Test Plan module. Anytime the command is invoked, a message is displayed to the user instructing them to use the VERA Smart Delete feature. This is a hard-coded configuration that is not configurable via the records management policy.
User Story	Vera.Win.E mail.TskDflt	Implement User Story 'Task Notification Default' Added Task Notifications to the Notification Policy.json file. By default, task notifications are enabled.
User Story	Vera.Win.E mail.ApprvID flt	Implement User Story 'Approval Notification Default' Added the Notification Policy.json file to the root requirement where policy administrators can configure the approval notifications. Implemented the functionality to have configurable notifications according to the file. By default, approval notifications are enabled.
User Story	Vera.Win.E mail.ApprvID one	Implement User Story 'Route Completion' Added the Route Completed notification to the Notification Policy.json file.
User Story	Vera.Win.E mail.TskRej	Implement User Story 'Task Rejection' Added the Route Rejected notification to the Notification Policy.json file.
User Story	Vera.Win.E mail.TskCncl	Implement User Story 'Task Cancellation' Added the Task Cancelled and Task Withdrawn notifications to the Notification Policy.json file.
User Story	Vera.Win.E mail.TskAss gn	Implement User Story 'Task Assignment' Added the Task Assignment notification to the Notification Policy.json file.
User Story	Vera.Win.Sp cActs.Transit ion	Implement User Story 'Transition' Added ability for Test Editors to Cancel and Uncancel Tests.
User Story	Vera.Win.Sp cActs.SmrtD el	Implement User Story 'Smart Delete' Implemented the Smart Delete action for test cases and test case folders. The default configurations are that Test Designers and Test Administrators can use the Smart Delete feature for test case folders that are empty and for test cases that are Draft, Revision 1, and have no associated test runs. This default configuration can be modified through the records management policy.



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User Story	Vera.Win.Sp cActs.SmrtC py	Implement User Story 'Smart Copy' Added the ability to copy and paste test cases and test case folders in ALM. This feature goes well beyond the copy and paste provided by ALM. It allows the selection of which elements to copy and does not restrict which tests and test folders can be selected.
User Story	Vera.Win.Sp cActs.Revise	Implement User Story 'Revise' Added the ability for Test Managers to Revise Approved Tests. Requires a Revision Reason.
User Story	Vera.Win.Ap prvWrkflws. ReassignTo AnyAdmin	Implement User Story 'Reassign Task to Any (Admin)' No software changes were necessary for this feature. This functionality was implemented as a by-product of implementing user story <i>Vera.Win.ApprvWrkflws.ReassignAdmin</i> .
User Story	Vera.Win.Ap prvWrkflws. ReassignAd min	Implement User Story 'Reassign Task to User (Admin)' Implemented core functionality that an administrator can reassign the task in the Reassign Task(s) (Administrator Only) approval task feature.
User Story	Vera.Win.Ap prvWrkflws. AssgnTskTo Any	Implement User Story 'Assign Task to Any' No software changes were necessary for this feature. This functionality was implemented as a by-product of implementing user story <i>Vera.Win.ApprvWrkflws.StartRte</i> .
User Story	Vera.Win.Ap prvWrkflws. OrgTsk	Implement User Story 'Organize Task' No software changes were necessary for this feature. This functionality was implemented as a by-product of implementing user story <i>Vera.Win.ApprvWrkflws.StartRte</i> . Note: One bug fix was implemented that was not directly related to the acceptance criteria of this feature. An HTML formatting issue was repaired in the Approval Route field.
User Story	Vera.Win.Ap prvWrkflws. RmvTsk	Implement User Story 'Remove Task' No software changes were necessary for this feature. This functionality was implemented as a by-product of implementing user story <i>Vera.Win.ApprvWrkflws.StartRte</i> .
User Story	Vera.Win.Ap prvWrkflws. AssgnTsk	Implement User Story 'Assign Task' No software changes were necessary for this feature. This functionality was implemented as a by-product of implementing user story <i>Vera.Win.ApprvWrkflws.StartRte</i> .



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Category	ID #	Name / Description
User Story	Vera.Win.ApprvWrkflws.AddTsk	Implement User Story 'Add Task' No software changes were necessary for this feature. This functionality was implemented as a by-product of implementing user story <i>Vera.Win.ApprvWrkflws.StartRte</i> .
User Story	Vera.Win.ApprvWrkflws.WthdrwRte	Implement User Story 'Withdraw Route' Added a default configuration that Test Designers (as default editors) and Policy Administrators can withdraw approval routes for test cases. This default configuration can be changed by modifying the records management policy.
User Story	Vera.Win.ApprvWrkflws.StartRte	Implement User Story 'Start Route' Added the ability to route entities to Routing for Approval(s) using the VERA Action Menu.
User Story	Vera.Win.ApprvWrkflws.ReassignToAny	Implement User Story 'Reassign Task to Any' Implemented core functionality that an approval task assignee can reassign the task to the entire approval group by selecting the "<Any>" option in the Reassign approval task feature. This is a core feature of the VERA engine that cannot be changed through configuration.
User Story	Vera.Win.ApprvWrkflws.Reassign	Implement User Story 'Reassign Task to User' No software changes were necessary for this feature. This functionality was implemented as a by-product of implementing user story <i>Vera.Win.ApprvWrkflws.StartRte</i> .
User Story	Vera.Win.ApprvWrkflws.Rjct	Implement User Story 'Reject Approval Task' No software changes were necessary for this feature. This functionality was implemented as a by-product of implementing user story <i>Vera.Win.ApprvWrkflws.StartRte</i> .
User Story	Vera.Win.ApprvWrkflws.Apprv	Implement User Story 'Complete Approval Task' Added the ability to apply an electronic signature to a record and complete approval routes.
User Story	Vera.HpAlm.RecMgmt.TsFldrs.Create	Implement User Story 'Create' Added a default configuration that Test Designers can create test folders in the Test Plan module. This default configuration can be changed by updating a project's records management policy.



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Category	ID #	Name / Description
User Story	Vera.HpAlm. RecMgmt.Ts ts.Move	<i>Implement User Story 'Move'</i> Added a default configuration that Test Designers can move Tests between folders. This default configuration can be changed by updating a project's records management policy.
User Story	Vera.HpAlm. RecMgmt.Ts ts.LnkReq	<i>Implement User Story 'Edit Requirement Link'</i> Added a default configuration that Test Designers and Requirement Authors can modify the requirement coverage of a test case, regardless of the test case's workflow status. This default configuration can be changed by updating a project's records management policy.
User Story	Vera.HpAlm. RecMgmt.Ts ts.Metadata	<i>Implement User Story 'Edit Metadata'</i> Added a default configuration that Test Designers can edit the metadata of test cases in the Test Plan module when the workflow status is <i>Draft</i> . This default configuration can be changed by updating a project's records management policy.
User Story	Vera.HpAlm. RecMgmt.Ts ts.LnkBug	<i>Implement User Story 'Edit Defect Link'</i> Added a default configuration that any user can modify the defect linkage of a test case, regardless of the test case's workflow status. This default configuration can be changed by updating a project's records management policy. Also added a default configuration that any user can create a new defect, which enables any user to use the "Add and Link Defect" feature on test case records. This default configuration can be changed by updating a project's records management policy. (Note: As always, the HP ALM Viewer group configurations may supersede this configuration if that is the only group a user is assigned to.)
User Story	Vera.HpAlm. RecMgmt.Ts ts.Data	<i>Implement User Story 'Edit Data'</i> Added a default configuration that Test Designers can edit test cases in the Test Plan module when the workflow status is <i>Draft</i> . This includes editing data fields, editing design steps (adding/updating/removing), editing test parameters (adding/updating/removing), and editing test configurations (adding/updating/removing). The default configuration specifies the following fields to be the data fields of a test case: Name, Description, Type, Category, GxP, Revision History, Revision Number, Test Goal, [Step] Step Name, [Step] Description, [Step] Expected Results, and [Step] Evidence Required. A special, hard-coded rule was also added to prevent deleting a test configuration when the test configuration has at least one associated test run. This default configuration can be changed by updating a project's records management policy.



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Category	ID #	Name / Description
User Story	Vera.HpAlm. RecMgmt.Ts ts.Attach	<i>Implement User Story 'Edit Attachments'</i> Added a default configuration that Test Designers can edit the attachments of test cases, test steps, and test configurations in the Test Plan module when the workflow status is <i>Draft</i> . This default configuration can be changed by updating a project's records management policy. NOTE: A known limitation of HP ALM exists in which the Description field of attachments is available for editing, regardless of user permissions or workflow status.
User Story	Vera.HpAlm. RecMgmt.Ts ts.Duplicate	<i>Implement User Story 'Duplicate'</i> Updated the workflow to always prevent the <i>Copy</i> command on a test case in the Test Plan module. Anytime the command is invoked, a message is displayed to the user instructing them to use the VERA Smart Copy feature. This is a hard-coded configuration that is not configurable via the records management policy.
User Story	Vera.HpAlm. RecMgmt.Ts ts.Delete	<i>Implement User Story 'Delete'</i> Updated the workflow to always prevent the <i>Delete</i> command on a test case in the Test Plan module. Anytime the command is invoked, a message is displayed to the user instructing them to use the VERA Smart Delete feature. This is a hard-coded configuration that is not configurable via the records management policy.
User Story	Vera.HpAlm. RecMgmt.Ts ts.Comment	<i>Implement User Story 'Comment'</i> Added a default configuration that all users can use the Add Comment feature and edit the Comments field of test cases in the Test Plan module when the workflow status is <i>Draft</i> . This default configuration can be changed by updating a project's records management policy. (Note: For users that are only members of ALM's Viewer role, this configuration is superseded by ALM's configurations, and those users will not be able to add or edit comments.)
User Story	Vera.HpAlm. RecMgmt.Ts ts.Create	<i>Implement User Story 'Create'</i> Added a default configuration that Test Designers can create test cases in the Test Plan module. This default configuration can be changed by updating a project's records management policy.



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Known Limitations

Summary	Description
QC/ALM - Editable requirement fields with a default value may not initialize while changing requirement types	<p>Issue: When changing the Requirement Type field of a requirement, new fields that are added to the record based on the new requirement type will not initialize with their default values (if applicable).</p> <p>Steps to reproduce:</p> <ol style="list-style-type: none">1. Assuming that a project is configured such that requirement folders have no GxP field while all other requirement types do, and also assuming the default GxP value is Y.2. Select a requirement folder and open the Details view.3. Change the Requirement Type from <i>Folder</i> to <i>Functional</i>.4. Results<ol style="list-style-type: none">1. The GxP field will be added to the requirement record.2. The GxP field will not be initialized to the default value of Y. Instead, it will be blank. <p>Limitation: In this scenario, the VERA QC/ALM workflow script has no reliable way of determining whether a blank field is intentionally blank or blank because it is newly displayed for the requirement type.</p> <p>Analysis: This behavior is by-design given the above limitation. When the user changes the Requirement Type field, the VERA QC/ALM workflow script will scan for blank fields with configured default values. However, it will only initialize the default value if the field is a read-only field. In this case, VERA knows the field is intended to be a system field and that it can safely update its value. For fields that are not read-only, VERA cannot reliably determine whether the field is blank because it is new, or whether it is blank because the user had previously configured it to be blank. Therefore, the safest behavior is for VERA to leave the field as blank and require the user to intentionally populate a value.</p>
QC/ALM - In Manual Runner, linking a defect to a step appears to allow editing of the Description/Expected field	<p>Issue: Linking a defect to a run step causes the Expected field of the run step to become editable in the UI.</p> <p>Steps to reproduce:</p> <ol style="list-style-type: none">1. Start a run2. Link a defect to a step3. Edit the Expected result field. The change will be allowed, but the Manual Runner will become "locked". <p>Limitation: This is a defect in the QC/ALM workflow script engine that cannot be circumvented or mitigated by Tx3. This issue has been observed to exist in all supported versions of QC/ALM.</p> <p>Analysis: This issue has been deemed acceptable by Tx3 for the following reasons:</p> <ol style="list-style-type: none">1. The issue is limited to the user interface. There is no scenario in which changes to the Expected Results will be saved to the database.2. No changes to Expected Results are saved to the Test Run.3. No changes to Expected Results are saved to the Test Case.



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Summary	Description
QC/ALM - Issue with renaming VERA policy files in version-controlled projects	<p>A bug exists in ALM's file repository management in which ALM can become confused when renaming a VERA policy file while also uploading a new policy file of the same name, all in the same version control operation.</p> <p>Example:</p> <ol style="list-style-type: none">1. Checkout the root requirement folder in a VERA project.2. Rename the Records Management Policy from "Records Management Policy.json" to "Records Management Policy.json.bak".3. Upload a new Records Management Policy using the expected name of "Records Management Policy.json".4. Check-in the root requirement.5. Issue: The old Records Management Policy will be used instead of the new one. <p>Impact: When testing policy file configurations, some admins like to archive their original configurations by renaming the current policy file before uploading the new one. This bug will prevent the new policy file from being tested in this scenario.</p> <p>Workaround: There are two recommended workarounds:</p> <ol style="list-style-type: none">1. Complete the rename operation and the upload operation in two separate version control operations. This will help the repository to properly detect the rename operation.2. OR: Archive current configurations by downloading to your PC instead of by renaming.
QC/ALM - ALM Lab Extension is not supported	<p>The ALM Lab Extension in QC/ALM cannot be enabled for VERA projects. This extension creates an issue in which VERA becomes unable to control access to the QC/ALM Manual Runner. If the extension becomes enabled, then any user in the project will be able to begin new test runs, regardless of user permissions, workflow states, or pre-execution approval rules.</p>
QC/ALM 11.52 - Test Set Designer Can Execute Tests	<p>In certain instances, a Test Set Designer can use the Run button to begin to execute a Test regardless of group membership, Test Set Status or Test Status. The Run cannot be saved since some required (but not editable) fields are missing.</p>
VERA - Multi-select fields are not fully support in policy configurations	<p>Multi-select list fields should not be used when configuring rules for workflow transitions, approval routes, etc. because VERA only supports exactly matching the entire contents of a field. Referencing a multi-select list field will work correctly in two scenarios:</p> <ul style="list-style-type: none">• When the user only selects a single value in the field• When the policy configuration specifies the various combinations of value selections that should be recognized. <p>The configuration will not work correctly if the user selects multiple values and the rule does not explicitly specify the selected combination of values.</p>
QC/ALM - Cannot control the "Continue Manual Run" feature from the Test Lab Execution Grid	<p>The QC/ALM workflow script has a limitation in which the Continue Manual Run action cannot be reliably evaluated from the Test Lab Execution Grid. This limitation creates the possibility that an Approved test run might be continued.</p> <p>To mitigate this limitation, the VERA software will never allow a test run to be continued from the Execution Grid. As a workaround, users must open either the Test Instance Details dialog or the Test Run Module grid before continuing a test run.</p>
QC/ALM - Cannot control editability of the Baseline field of test sets	<p>In QC/ALM, the Baseline field of test sets will sometimes appear to be editable when it should not be. The workflow is very inconsistent in enforcing the editability of that field. However, this issue is considered acceptable because the workflow <i>does</i> correctly prevent users from actually pinning or unpinning a baseline when the user does not have permission to do so. Meaning, even when the field is editable, the user will not be able to save changes to the field unless they are permitted to do so by the workflow.</p>



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Summary	Description
QC/ALM - Cannot control editability of the Assigned to Cycle field on test set folders	In QC/ALM, the Assigned to Cycle field of test set folders will always appear to be editable. There is no way to make the field read-only via workflow. However, this issue is considered acceptable because the workflow <i>does</i> correctly prevent users from actually assigning a test set folder to a cycle when the user does not have permission to do so. The behavior is misleading and confusing to users, because the user interface appears to let the user edit the Assigned to Cycle field. However, the actual link between the test set folder and the cycle is never established in the backend, and any changes made to the field will be lost when the user logs out.
QC/ALM - Convert to Tests is not fully functional	The ' Convert to Tests... ' feature of HPE ALM is not fully functional with VERA 2.x. The following limitations apply: <ol style="list-style-type: none">1. The option 'Convert lowest child requirements to design steps' will always fail. The reason is that HP ALM will attempt to generate the new test cases as <i>Approved</i>, because <i>Approved</i> is the first alphabetical workflow status. VERA will then prevent the <i>Approved</i> test cases from being created.2. The option 'Convert lowest child requirements to tests' will also always fail for the same reason described above.3. The option 'Generate Single Test' will only work if the user manually selects to create the new test into the <i>Draft</i> status. This must be selected manually each time the feature is used, because the default selection will always be <i>Approved</i> as described above. Note: The option ' Convert all requirements to subjects ' works as expected, because subject folders have no workflow status.
QC/ALM - Attachment Descriptions are Always Editable	In HPE ALM, the Description field of attachments is always editable, regardless of user permissions and workflow state. This is a known limitation of the ALM system with no known mitigations. This limitation is considered acceptable because attachment descriptions are not necessarily critical data fields that must be controlled by workflow and locked by electronic signatures. (It would be beneficial to have that functionality if it were possible.)

Known Issues

Reference ID	Name / Description
VF-272	<p>'Tester' field of run step appears blank after changing the execution status by using the drop-down list</p> <p>Description: When executing a test run in Manual Runner, the Tester field of each test step should populate with the current user's ID when a step status is selected. This functionality works correctly when using the Pass/Fail buttons, but not when selecting the status directly from the drop-down list.</p> <p>Impact: This issue is limited to the user interface, because the Tester field is being populated in the back-end. The user interface will reflect this the next time the screen is properly refreshed.</p> <p>Workaround: Wait for the next action that causes the screen to refresh. The data will become visible.</p>



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VF-306	<p><i>The VERA details pane does not support more than 12 fields.</i></p> <p>Description: The Details view in the VERA multi-selection window currently does not support display of 13+ fields when configured in the Records Management Policy.</p> <p>Impact: Extra fields (if configured) will become truncated from the display.</p> <p>Workaround: Administrators should not configure more than 12 fields in a given details view of the multi-selection dialog.</p>
VF-33	<p><i>An error message is displayed when launching the VERA Action Menu on a missing record</i></p> <p>Description: An error message will display when attempting to open the VERA Action Menu on an invalid entity. This can happen when using the Action Menu in an empty grid view, or when the UI fails to refresh after deleting an entity.</p> <p>Impact: This issue affects new projects without data; using the Action Menu in an empty Test Runs module or empty Defects module will trigger the issue. This can also happen intermittently after using Smart Delete.</p> <p>Workaround: Select a valid entity before trying again.</p>
VF-338	<p><i>'Pin to Baseline' should not be permitted on test sets with signatures.</i></p> <p>Description: Currently, VERA will allow the Pin to Baseline action a test set with pre-execution approval signatures in the Ready for Execution workflow state, as long as no test runs exist within the test set. This is an issue, because pinning to a baseline may cause the deletion of any test instance not associated with the baseline, which would invalidate the pre-execution approval signature(s).</p> <p>Impact: For teams using both baselining and approvals on test sets, the Test Set Designers must be careful of using the Pin To Baseline feature after pre-execution approvals are complete. Once the first run is executed in the test set, then the risk is removed, because the Pin To Baseline feature will become disabled. For teams that do not use both baselining and approvals on test sets, then this issue will have no impact.</p> <p>Workaround: If the issue arises, then the Test Set Designer should revise the test set and re-route for pre-execution approval.</p>
VF-349	<p><i>Requirement Managers cannot reorder entities in the Requirements module</i></p> <p>Description: A Requirement Manager is unable to reorder requirement records using the toolbar buttons in the Requirements module.</p> <p>Impact: A Requirement Manager that is not also a Requirement Author will need to request a Requirement Author to make the updates.</p> <p>Workaround: It is recommended that the Requirement Manager should be assigned Requirement Author permissions, also.</p>



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VF-350	<p><i>Title of Smart Delete Dialog has whitespace issue.</i></p> <p>Description: The dialog window for the Smart Delete feature displays as follows: "Smart DeleteRecords and Folders".</p> <p>Impact: Minimal</p> <p>Workaround: N/A</p>
VF-351	<p><i>Incorrect error message on Cancel action in test lab</i></p> <p>Description: When attempting to Cancel a record that is not in a Draft status, a confusing error message is displayed that states the record must be in a Draft or Calculated state. This may be confusing, because Calculated is only a valid state for risk scenarios and for no other record type. This issue is a result of the default configuration in which a single business rule has been configured for the Cancel action that is applied to all records that support cancellation.</p> <p>Impact: Users may be confused by the mention of the Calculated state.</p> <p>Workaround: The portion of the error message referencing the Calculated state must be ignored for most record types. The statement that the record must be Draft is true for all record types.</p>
VF-366	<p><i>Smart Paste fails when a field marked 'Reset on Copy' does not exist in a Requirement Type</i></p> <p>Description: The VERA Smart Paste feature will not work correctly if it encounters a field that is configured to be reset in the new copy, but the field does not actually exist on the record being copied. This most typically will happen if a requirement field is configured to be reset, but the field does not exist in all requirement types.</p> <p>Impact: When this configuration issue exists, it will prevent the user from completing the Smart Paste action on certain records.</p> <p>Workaround: Administrators can implement a workaround into their configurations by either excluding the field from the "reset on copy" configuration, or by creating a new record type to correspond with the requirement type that has the special field. Contact Tx3 Support for more assistance.</p>
VF-367	<p><i>Requirement version Checkout button generates an error message</i></p> <p>Description: When the user presses the "Checkout" button on the History tab of a requirement record, the user will see a message indicating that VERA does not recognize the action. The action is then prevented from happening, and the selected requirement version will not be checked-out.</p> <p>Impact: This issue prevents administrative users from using the Checkout Version feature. The impact is minimal for non-administrative users, as they are not intended to have access this feature.</p> <p>Workaround: Requirements must be revised, modified to match the historic version that is intended to be restored, and then re-approved using VERA's workflow.</p>



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VF-376	<p><i>ALM 12.55 error "You don't have permission to execute this action" appears when user try to cancel run by using "X" button on manual runner</i></p> <p>Description: In QC/ALM 12.55, if a user starts a test run in Manual Runner, then selects to cancel the test run without saving, an error message will display and the run will not be cancelled.</p> <p>Impact: This issue impacts all VERA projects in QC/ALM 12.55. Prior versions of QC/ALM are not impacted.</p> <p>Workaround: There is no workaround to allow a run to be cancelled without saving in QC/ALM 12.55. The only option is to select "Yes" to save the run, and then select to cancel it using VERA's electronic workflow.</p>
VF-386	<p><i>"VERA Signature Verification" does not gracefully support missing user names</i></p> <p>Description: The VERA Signature Verification utility will fail to verify an electronic signature if the signature is missing a full name of the signer.</p> <p>Impact: Organizations that do not have full names configured for their QC/ALM users will not be able to verify the integrity of their electronic signatures using the VERA Signature Verification Utility.</p> <p>Workaround: Tx3 recommends that full names should be configured for all QC/ALM users that will create electronic signatures. If you have a need to verify the integrity of electronic signatures generated without full names, then please contact Tx3 Support for assistance.</p>
VF-393	<p><i>VERA 2.x Does not recognize the ALM Type field for Runs without the prefix</i></p> <p>Description: When evaluating approval route rules for test runs, QC/ALM does not recognize the displayed value in the Run Type field. (e.g. MANUAL, BUSINESS-PROCESS).</p> <p>Impact: This issue only impacts administrators when designing approval route rules. Administrators can use the workaround listed below to mitigate this issue, and users will not be impacted.</p> <p>Workaround: When configuring approval route rules for test runs, if a rule must reference the run's Type field, then prefix the value with "hp.qc.run." in your <i>Approval Policy.json</i> file.</p> <p>Example: hp.qc.run.MANUAL</p>
VF-398	<p><i>Workflow script error when smart deleting a test case which exists in test set</i></p> <p>Description: In some cases, an error will display while transitioning between modules after using the Smart Delete feature on a test case entity that was not removed from all test sets prior to deletion.</p> <p>Impact: This error will be an occasional nuisance to users. It does not prevent the Smart Delete feature from functioning.</p> <p>Workaround: It is recommended that test cases are removed from all test sets before using Smart Delete. This will prevent the error. Alternatively, the user can refresh their login session after the error occurs.</p> <p>NOTE: VERA will not allow a test case to be deleted if it has existing test runs. This issue and guidance is limited to test cases that were added to one or more test sets, but that were not yet executed.</p>



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VF-409	<p><i>Run Dry Run/Draft status not set correctly based on Test Set</i></p> <p>Description: In QC/ALM 11.52, running both Dry Runs and Formal Runs in the same session will result in incorrect Run Statuses.</p> <p>Impact: Testers using QC/ALM 11.52 may create runs with the incorrect status (Dry Run vs. Draft formal Run).</p> <p>Workaround: Testers should exit ALM before switching which execution type they are running (Dry Runs or Formal Runs).</p>
VF-414	<p><i>Intermittent Error Message when Using Password Encryption Utility</i></p> <p>Description: When using the VERA Password Encryption Utility, an intermittent error may display when the utility attempts to access the system clipboard. (COMException: OpenClipboard Failed (Exception from HRESULT: 0x800401D0 (CLIPBRD_E_CANT_OPEN)))</p> <p>Impact: This issue only impacts administrators using the VERA Toca Integration solution. No other users should have a need to use the Password Encryption Utility.</p> <p>Workaround: When the error displays, retry the encryption operation.</p>
VF-418	<p><i>Enterprise Integration actions are not supported by VERA workflow script</i></p> <p>Description: QC/ALM actions that are associated by the Enterprise Integration extension for ALM are not recognized by the VERA workflow script. Therefore, VERA always blocks these actions from triggering.</p> <p>Impact: This issue is limited to projects making use of the Enterprise Integration extension.</p> <p>Workaround: None</p>
VF-424	<p><i>Clipboard error when copying version information text</i></p> <p>Description: An error can occur when pressing the "Copy to Clipboard" button in the VERA version information screen. Error message: "OpenClipboard Failed (Exception from HRESULT: 0x800401D0 (CLIPBRD_E_CANT_OPEN))".</p> <p>Impact: This issue can occur intermittently when using the Smart Copy action in the VERA Action Menu.</p> <p>Workaround: Try again to see if the issue immediately resolves itself. If it doesn't, try closing other applications that may have a lock on the clipboard.</p>
VF-436	<p><i>Performance Issue: Opening the QC Vera Action Menu takes 49 sec for 142 items</i></p> <p>Description: Opening the VERA Action Menu with an item selected that has a lot of child entities.</p> <p>Impact: Users may experience long loading times when opening the VERA Action Menu.</p> <p>Workaround: Users should be careful to select entities that do not have a lot of child entities, if possible.</p>



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VF-440	<p><i>Cannot make a Test Step field editable when the Edit Step Action is prevented</i></p> <p>Description: VERA does not allow a design step field to be configured as editable when the test case itself is in a workflow state that does not allow editing.</p> <p>Impact: This issue prevents administrators from configuring a business rule allowing a specific design step field (such as a comments field) to be editable by approvers when a test case is routing for approval.</p> <p>Workaround: Consult with Tx3 Support if you have a business case requiring this functionality. We may be able to identify a workaround configuration for your use case.</p>
VF-449	<p><i>When user selects a root folder and then tries to bulk approve test cases an error occurred.</i></p> <p>Description: Occasionally, VERA actions will fail on certain test case records when operating on a tree of test cases with several layers of folders. When this occurs, the same test case records will continuously fail the given VERA action.</p> <p>Impact: When it occurs, this issue prevents the user from applying the bulk action to the impacted test cases from the given folder level.</p> <p>Workaround: Retry the bulk operation by selecting one folder lower in the hierarchy. In observation, the action will work as expected when operating one folder-level lower. (NOTE: This issue is not commonly observed, and there is no consistency to how many folder levels will trigger the issue.)</p>
VF-452	<p><i>Reassign Task User Dropdown is not displayed correctly in ALM 14</i></p> <p>Description: In ALM 14 and in the Reassign Task dialog, the User dropdown is not displayed correctly.</p> <p>Impact: Users cannot see the default dropdown value.</p> <p>Workaround: Users will need to click the dropdown list to see the available selections.</p>
VF-454	<p><i>"New Requirements" Dialog in ALM 12.55 Does Not Initialize Correctly</i></p> <p>Description: In ALM 12.55, the Requirements dialog may not be initialized correctly.</p> <p>Impact: Requirement Authors may not be able to create Requirements until the fields are initialized properly.</p> <p>Workaround: Requirement Authors will need to switch Requirement Types in order ensure that the proper fields are initialized.</p>
VF-455	<p><i>Unrecognized action: Update Selected in the Execution Grid of a Test Set</i></p> <p>Description: The Update Selected... action in the Execution Grid of a test set is unrecognized by VERA.</p> <p>Impact: The command is unavailable for users.</p> <p>Workaround: Test instances must be updated individually.</p>



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VF-464	<p><i>Cannot use "Reassign Approval Tasks (as Admin)" action on requirement tree for content originator</i></p> <p>Description: Users cannot reassign approval tasks for Content Originator when a Requirement Folder is selected.</p> <p>Impact: Users might not be able to use reassign approval tasks for Content Originator.</p> <p>Workaround: Users may need to withdraw approval routes instead of reassigning tasks.</p>
VF-466	<p><i>Smart Paste fails when the author on a requirement is not a member of the project</i></p> <p>Description: Smart Paste can fail if the user in the Author field of the copied Requirement is no longer in the project.</p> <p>Impact: Users may not be able to copy certain Requirements.</p> <p>Workaround: If a Requirement cannot be copied, the user should have the project's User Administrator to temporarily re-add the missing user.</p>
VF-467	<p><i>Error message contains typo when a task doesn't have an assigned order.</i></p> <p>Description: A typo exists in the error message displayed when a task doesn't have an assigned order.</p> <p>Impact: The error message is slightly less readable than expected.</p> <p>Workaround: There is no workaround.</p>
VF-479	<p><i>New Defect action from project drop down list is unknown action</i></p> <p>Description: The "New Defect" action in the "Tools..." menu is not recognized by VERA.</p> <p>Impact: Users are unable to create new defects using the "Tools..." menu.</p> <p>Workaround: Users can create new defects using module-level menus and toolbar buttons.</p>
VF-481	<p><i>CSV Importer: Implement Cancel ability and record counts</i></p> <p>Description: The 'Importing Records' progress bar screen in the CSV Data Importer feature is missing a Cancel Button and a displayed count of records.</p> <p>Impact: Users doing an import of records from a CSV file cannot abort the operation once it is started. (The VERA software requirements indicate this should be possible.)</p> <p>Workaround: None</p>
VF-483	<p><i>CSV Importer: Workflow State is not honored by Attachments</i></p> <p>Description: The CSV Data Importer feature will allow importing attachments to records in a workflow state where this would normally be prevented (such as 'Routing for Approval' or 'Approved').</p> <p>Impact: Users might be able to use the CSV Data Importer to import attachments to a record that has already received one or more electronic signatures. (Note: This only applies to requirements and test cases. It also only applies to adding attachments, not removing existing attachments.)</p> <p>Workaround: None</p>



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VF-484	<p>CSV Importer: Updates fail on some fields on a line that contains a value in the Subject field</p> <p>Description: When using the CSV Data Importer feature to update existing test cases, the update may fail if a Subject field is specified inline with the test reference in the CSV file.</p> <p>Impact: This issue will cause certain rows of the data import operation to fail while updating existing test cases.</p> <p>Workaround: The data importer supports specifying the test case Subject field (folder name) on a separate line preceding the test case's line. This technique will prevent the above issue from occurring during an update operation.</p>
VF-486	<p>CSV Importer: Utility does not validate the file extension before importing</p> <p>Description: The CSV Data Importer feature will not validate the file extension of a file selected for import</p> <p>Impact: Users can attempt to import non-CSV files, which will result in a file parsing error.</p> <p>Workaround: Users will need to restart the wizard if they accidentally try to import a non-CSV file.</p>
VF-489	<p>VERA Hard-Locking is not compatible with Oracle databases</p> <p>Description: Users are unable to execute any VERA actions against hard-locked, automated test cases in QC/ALM projects using an Oracle database.</p> <p>Impact: Users will be unable to complete actions such as "Approve", "Reject", "Withdraw", or "Revise" once an automated test case is routed for approval. This only impacts projects using an Oracle database.</p> <p>Workaround: Hard-locking can be disabled in the project by updating the Records Management Policy.</p>
VF-492	<p>Transition Reason doesn't support including Revision Number with a different Label</p>
VF-502	<p>CSV Data Importer: Missing attachments are uploaded as blank files w/out error</p> <p>Description: When importing attachments using the CSV Data Importer, if the file path or file name does not exist, then an empty attachment of the expected name is created instead. No error or warning is provided to the user.</p> <p>Impact: The record will have an empty (0 KB) attachment.</p> <p>Workaround: After running the CSV Data Importer, the user should verify that no attachments have a size of 0 KB. Alternatively, attachments can be uploaded manually after the records are imported.</p>



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VF-503	<p>CSV Data Importer: Record version numbers are incremented, even when the record is not updated</p> <p>Description: When using the CSV Data Importer in version-controlled projects, the QC/ALM version number may be incremented even when no changes are made to the record.</p> <p>Impact: If the user attempts to use the importer to update a record that is locked by the VERA workflow, then the record version number will be incremented even after the update is prevented by VERA. This will give the incorrect appearance that the locked record was modified.</p> <p>Workaround: Users and auditors can verify and prove that no actual changes were made to the locked record by viewing the record's Audit History.</p>
VF-504	<p>CSV Data Importer: Req Traceability failures are not clearly reported by the utility</p> <p>Description: When using the CSV Data Importer to import requirement traceability, if an error occurs while creating a trace link, then the Importer reports that the entire record failed to import even if it is only the traceability portion that failed.</p> <p>Impact: The user may not realize that the record actually imported unless they search for it in ALM. Furthermore, they may not understand the source of the error message or how to resolve it.</p> <p>Workaround: When troubleshooting import errors, users should search for imported records by Path and Name. If they discover a record did actually import, they should verify whether traceability may have been the root of the failure and continue troubleshooting from there.</p>

Document Revision History

Date	Revision	Summary of Changes	Author/Updated By
05 DEC 2018	01	Initial Revision	Aaron Morris